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July 6, 2012

Ms. Susan Pelz, P.E.
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 – Second Quarter (April - June, 2012)

Dear Ms. Pelz:

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, is pleased to provide the analytical data for the second quarter effluent sampling of the leachate treatment plant located at the SCLF.

The referenced permit requires the monthly sampling of the leachate treatment plant effluent, and recording of the pH value on a weekly basis. The pH values recorded during the three month period ranged from 7.7–8.4 pH units. The monthly samples of effluent collected are analyzed for Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), and Nitrate.

On April 3, May 1, and June 5, 2012, the effluent samples were collected from the dedicated sampling port at the treatment plant. The samples were analyzed by our contracted laboratory, Test America, Inc. for the parameters listed above. The laboratory 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.

Ms. Susan Pelz July 6, 2012 Page 2

Should you have any questions or comments concerning the information provided in this submittal, please feel free to contact me at (813) 272-5977 extension 43944.

Sincerely,

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

No 1827

STATE OF

DSA/mdt Enclosures

xc:

Larry Ruiz, Public Utilities Beth Schinella, Public Utilities Ron Cope, EPC

G:enviro/self/leachate plant/ltp-effluent-2ndqtr2012.doc



TestAmerica Laboratories, Inc. TestAmerica Tampa 6712 Benjamin Road Suite 100 Tampa, FL 33634

Tel: (813)885-7427

TestAmerica Job ID: 660-46910-1 Client Project/Site: SELF,Leachate Trucks, 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: 4/13/2012 2:40:48 PM

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

Review your project results through Total Access

----- LINKS -----

Have a Question?



Visit us at: www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: Hillsborough County Public Utilities Dep Project/Site: SELF, Leachate Trucks, EFF

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 660-46910-1

Qualifiers



General Chemistry

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

TEQ

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

Case Narrative

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Job ID: 660-46910-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-46910-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

General Chemistry

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 122974 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method SM 5220D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 123168 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

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Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac D	Method	Prep Type
Nitrate as N	110		100	20	mg/L	200	353.2	Total/NA
Chemical Oxygen Demand	730		100	50	mg/L	5	5220 D	Total/NA
Total Dissolved Solids	4800		250	250	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	19		1.0	1.0	mg/L	1	SM 2540D	Total/NA
Biochemical Oxygen Demand	21		12	12	mg/L	1	SM 5210B	Total/NA
Field pH	7.86				SU	1	Field Sampling	Total/NA
Field Temperature	29.97				Degrees C	1	Field Sampling	Total/NA
Oxygen, Dissolved	5.49				mg/L	1	Field Sampling	Total/NA
Specific Conductance	10244				umhos/cm	1	Field Sampling	Total/NA

No Detections

Client Sample Results

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Client Sample ID: Leachate Effluent

Lab Sample ID: 660-46910-1

Date Collected: 04/03/12 13:40

Matrix: Water

Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
110		100	20	mg/L			04/04/12 12:50	200
730		100	50	mg/L		04/10/12 10:45	04/10/12 15:10	5
4800		250	250	mg/L			04/04/12 14:53	1
19		1.0	1.0	mg/L			04/04/12 08:57	1
21		12	12	mg/L			04/04/12 15:09	1
ampling								
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
7.86				SU			04/03/12 13:40	1
29.97				Degrees C			04/03/12 13:40	1
5.49				mg/L			04/03/12 13:40	1
10244				umhos/cm			04/03/12 13:40	1
	110 730 4800 19 21 ampling Result 7.86 29.97	730 4800 19 21 ampling Result Qualifier 7.86 29.97 5.49	110 100 730 100 4800 250 19 1.0 21 12 ampling Result Qualifier PQL 7.86 29.97 5.49	110 100 20 730 100 50 4800 250 250 19 1.0 1.0 21 12 12 ampling Result Qualifier PQL MDL 7.86 29.97 5.49	110 100 20 mg/L 730 100 50 mg/L 4800 250 250 mg/L 19 1.0 1.0 mg/L 21 12 12 mg/L ampling Result Qualifier PQL MDL Unit 7.86 29.97 5.49 Degrees C mg/L	110 100 20 mg/L 730 100 50 mg/L 4800 250 250 mg/L 19 1.0 1.0 mg/L 21 12 12 mg/L ampling Result Qualifier PQL MDL Unit D 7.86 29.97 SU Degrees C mg/L	110 100 20 mg/L 730 100 50 mg/L 04/10/12 10:45 4800 250 250 mg/L 19 1.0 1.0 mg/L 21 12 12 mg/L ampling Result Qualifier PQL MDL Unit D Prepared 7.86 SU 29.97 Degrees C mg/L	110 100 20 mg/L 04/04/12 12:50 730 100 50 mg/L 04/10/12 10:45 04/10/12 15:10 4800 250 250 mg/L 04/04/12 14:53 19 1.0 1.0 mg/L 04/04/12 08:57 21 12 12 mg/L 04/04/12 15:09 ampling Result Qualifier PQL MDL Unit D Prepared Analyzed 7.86 SU 04/03/12 13:40 29.97 Degrees C 04/03/12 13:40 5.49 mg/L 04/03/12 13:40



Client Sample Results

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Client Sample ID: Equipment Blank

Lab Sample ID: 660-46910-2

Date Collected: 04/03/12 13:35 Date Received: 04/03/12 15:30 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			04/04/12 11:01	1
Chemical Oxygen Demand	10	υ	20	10	mg/L		04/10/12 10:45	04/10/12 14:45	1
Total Dissolved Sclids	5.0	U	5.0	5.0	mg/L			04/04/12 14:53	1
Total Suspended Solids	1.0	Ü	1.0	1.0	mg/L			04/04/12 08:57	1
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			04/04/12 15:05	1



Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

lethod: 353.2 - Nitrate	······				······································				antonomica de la companio		······································	
_ab Sample ID: MB 660-122974/14 Matrix: Water								(Client Sa	mple ID: M		
Analysis Batch: 122974												
		MB MB										
Analyte		sult Qualifier		PQL		DL Unit		D Pro	epared	Analyzed		Dil Fac
Nitrate as N		0,10 U		0.50	0.	10 mg/L				04/04/12 10	:51	1
Lab Sample ID: LCS 660-122974/15 Matrix: Water								Client	Sample I	D: Lab Cor Prep Ty		
Analysis Batch: 122974			Calles		LCS	1.00				%Rec.		
Analyte			Spike Added		Result	Qualifier	Unit	D	%Rec	Limits		
Nitrate Nitrite as N			1.00		1,00		mg/L	— <u> </u>	100	90 - 110		
litrite as N			0.500		0.505		mg/L		101	90 - 110		
									CI:4 6	Samuela IDel		C-ile
ab Sample ID: 660-46895-A-2 MS									Cilent	Sample ID: I		•
Matrix: Water										Prep Ty	pe: 101	(al/N
inalysis Batch: 122974		Comple	Calles		MC	MS				%Rec.		
	Sample	•	Spike		MS	MS Qualifier	11-14	D	%Rec	Limits		
inalyte Iitrite as N	0.30	Qualifier	0.500		Result 0.800	Quaimer	Unit mg/L	=	101	90 - 110		
itine as iv	0.30	1	0.500		0.000		mg/L		101	30-110		
ab Sample ID: 660-46895-A-2 MS ^	2								Client S	Sample ID:	Matrix	Spik
flatrix: Water										Prep Ty	pe: Tol	tal/N
Analysis Batch: 122974												
	Sample	Sample	Spike		MS	MS				%Rec.		
Analyte		Qualifier	Added			Qualifier	Unit		%Rec	Limits		
litrate Nitrite as N	3.2	J3	2.00		4.08	J3	mg/L		43	90 - 110		
_ab Sample ID: 660-46895-A-2 MSD							С	lient Sa	mple ID:	Matrix Spi	ke Dup	olicat
Matrix: Water										Prep Ty	pe: To	tal/N
Analysis Batch: 122974												
	Sample	Sample	Spike		MSD	MSD				%Rec.		RP
Analyte		Qualifier	Added			Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Lin
∜itrite as N	0.30	1	0.500		0,802		mg/L		101	90 - 110	0	:
ab Sample ID: 660-46895-A-2 MSD	^2						С	lient Sa	mple ID:	: Matrix Spi	ke Dup	olica
Matrix: Water										Prep Ty	pe: To	tal/N
Analysis Batch: 122974												
	Sample	Sample	Spike		MSD	MSD				%Rec.		RF
Analyte		Qualifier	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lin
Nitrate Nitrite as N	3.2	13	2.00		4.08	J3	mg/L		43	90 - 110	0	3
ethod: 5220 D - Chemical Ox	ygen [Demand										
Lab Sample ID: MB 660-123153/4-A									Client S	ample ID: N	lethod	Blan
Matrix: Water										Prep Ty		
Analysis Batch: 123164										Prep B	-	
may 310 Datom 120107		мв мв										
Analyte	R	esult Qualifier		PQL	N	IDL Unit		D P	repared	Analyze	d	Dil Fa
Chemical Oxygen Demand		10 U									4:45	

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF

lethod: 5220 D - Chemica	ii Oxygen D	emand (Co	/iitiiiueu,								
Lab Sample ID: LCS 660-1231	53/5-A						Client	Sample I	D: Lab Cor		•
Matrix: Water									Prep Ty	e: To	al/NA
Analysis Batch: 123164									Prep Ba	ıtch: 1	2315
-			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chemical Oxygen Demand			50.0	46.7		mg/L		93	90 - 110		
Lab Sample ID: 640-38050-A⊸	4-C MS							Client S	Sample ID: 1	Matrix	Spik
Matrix: Water									Prep Ty	pe: To	tal/N
Analysis Batch: 123164									Prep Ba	atch: 1	2315
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
Chemical Oxygen Demand	10	Ū	50.0	49.0		mg/L		98	90 - 110		
_ab Sample ID: 640-38050-A-	4-D MSD					C	lient Sa	mple ID:	Matrix Spi	ke Duş	olicat
Matrix: Water									Prep Ty	pe: To	tal/N
Analysis Batch: 123164									Prep Ba	atch: 1	2315
	\$ample	Sample	Spike	MSD	MSD				%Rec.		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Chemical Oxygen Demand	10	U	50.0	49.0		mg/L		98	90.110	0	:
								~!ia=4 Ca	mple ID: M	ethod	Rlar
Lab Sample ID: MB 660-12316	66/4-A						,	Sueur 25	mibie in. m	•••••	-,
•	66/4-A						,	Silent Sa	Prep Ty		
Matrix: Water	66/4-A						,	Jient Sa	•	pe: To	tal/N
Matrix: Water	66/4-A	мв мв					,	Juent Sa	Prep Ty	pe: To	tal/N
Matrix: Water Analysis Batch: 123168		MB MB esult Qualifier	1	PQL A	SDL Unit			onent Sa	Prep Ty	pe: To atch: 1	tal/N 2316
Matrix: Water Analysis Batch: 123168 _{Analyte}		=		PQL 8	SDL Unit 10 mg/L		D Pro		Prep Ty Prep B	pe: To atch: 1	tal/N 2316
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Matrix: Water Analysis Batch: 123168 Analyte Chemical Oxygen Demand Lab Sample ID: LCS 660-1231 Matrix: Water Analysis Batch: 123168	R	esult Qualifier		20 LCS	10 mg/L	Unit	D Pro 04/10	epared //12 10:45	Prep Ty Prep B: Analyze 04/10/12 19 ID: Lab Coi Prep Ty Prep B	pe: To atch: 1 d 5:10 ntrol S pe: To	tal/N 2316 Dil Fa ampl tal/N
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Matrix: Water Analysis Batch: 123168 Analyte Chemical Oxygen Demand Lab Sample ID: LCS 660-1231 Matrix: Water Analysis Batch: 123168 Analyte Chemical Oxygen Demand Lab Sample ID: 640-38046-C- Matrix: Water Analysis Batch: 123168 Analyte	Ro 166/5-A 2-B MS Sample	Sample Qualifier	Spike Added 200	LCS Result 204 MS Result	10 mg/L LCS Qualifier	mg/L	D Pro- 04/10 Client	%Rec 102	Prep Ty Prep B: Analyze 04/10/12 19 ID: Lab Cor Prep Ty Prep B: %Rec. Limits 90 - 110 Sample ID: Prep Ty Prep B: %Rec.	pe: To atch: 1 d 5:10 ntrol S pe: To atch: 1 Matrix pe: To	tal/N 2316 Dil Fa amp tal/N 2316 Spik
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Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

									С	lient Sa	mple ID: Meth	iod Bla	ank
											Prep Type:	Total/	/NA
	MB	MB											
Re				PQL				D _	Pre	pared	Analyzed		Fac
	5,0	U		5.0	5	.0 mg/L					04/04/12 14:49		1
								Cli	ent S	iample i			-
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	Qua	ifier				Qualifier					K		Limi 20
1100					1120		mg/L					•	21
	мп	NO.							C	lient Sa	•		
_								_	_				
R								D	Pre	pared			I Fa
	1.0	U		1.0		i.u mg/L					04/04/12 06.5/		
								Cli	ant 9	Samuela			nple
									GIIL V	sample	ID: Lab Contro Prep Type		/N/
									GIIL V	sample	Prep Type		I/N/
			Spike		LCS					·	Prep Type %Rec.		I/N/
			Added	_	Result	LCS Qualifier	Unit		_ <u>D</u>	%Rec	Prep Type %Rec. Limits		I/N/
			•				Unit mg/L			·	Prep Type %Rec.		I/N <i>J</i>
			Added		Result					%Rec 98	Prep Type %Rec. Limits	: Total	cat
			Added		Result 98.4	Qualifier				%Rec 98	Prep Type %Rec. Limits 80 - 120 nt Sample ID:	: Total	cat
Sample		-	Added		Result 98.4	Qualifier DU	mg/L		_ <u>P</u>	%Rec 98	Prep Type *Rec. Limits 80 - 120 nt Sample ID: Prep Type	: Total Duplic : Total	cate I/N/
Result		-	Added		Result 98.4 DU Result	Qualifier	mg/L Unit			%Rec 98	Prep Type *Rec. Limits 80 - 120 nt Sample ID: Prep Type	: Total Duplic : Total	cate I/N/ RPI
-		-	Added		Result 98.4	Qualifier DU	mg/L		_ <u>P</u>	%Rec 98	Prep Type *Rec. Limits 80 - 120 nt Sample ID: Prep Type	: Total Duplic : Total	cate I/N/ RPI
Result		-	Added		Result 98.4 DU Result	Qualifier DU	mg/L Unit		_ <u>P</u>	%Rec 98	Prep Type *Rec. Limits 80 - 120 nt Sample ID: Prep Type	: Total Duplic : Total	cate I/N/ RPI Lim
Result 28		-	Added		Result 98.4 DU Result	Qualifier DU	mg/L Unit		D D	%Rec 98 Clie	Prep Type %Rec. Limits 80 - 120 Int Sample ID: Prep Type	Duplic: Total	cate I/N/ RPI Limi 2
Result 28 ay		-	Added		Result 98.4 DU Result	Qualifier DU	mg/L Unit		D D	%Rec 98 Clie	Prep Type %Rec. Limits 80 - 120 nt Sample ID: Prep Type	Duplic: Total	cate I/N/ RPI Limi 2
Result 28 ay	Qua	-	Added		Result 98.4 DU Result	Qualifier DU	mg/L Unit		D D	%Rec 98 Clie	Prep Type %Rec. Limits 80 - 120 Int Sample ID: Prep Type	Duplic: Total	cate I/N/ RPI Limi 2
	Sample Result 1100	Sample Sam Result Qual 1100 otal Suspe	otal Suspended (T	Result Qualifier 5.0 U Spike Added 10000 Sample Result Qualifier 1100 MB MB Result Qualifier Qualifier	Sample Sample Result Qualifier Spike Added 10000 Sample Sample Result Qualifier 1100 MB MB Result Qualifier PQL	Result Qualifier PQL MC 5.0 U 5.0 5 Spike LCS Added Result 10000 9940 Sample Sample DU Result Qualifier Result 1100 1120 otal Suspended (TSS)	Result Qualifier PQL MDL Unit Spike	Result Qualifier PQL MDL Unit	Result Qualifier PQL MDL Unit D	MB MB Result Qualifier PQL MDL Unit D Pre	MB MB Result Qualifier PQL MDL Unit D Prepared	NB MB MB Result Qualifier PQL MDL Unit D Prepared Analyzed	NB MB MB Result Qualifier PQL MDL Unit D Prepared Analyzed Dil

Client: Hillsborough County Public Utilities Dep

Project/Site: SELF, Leachate Trucks, EFF

TestAmerica Job ID: 660-46910-1

-		,	e res orsina a como							***************************************				
Lab Sample ID: USB 660-122938/1 (JSB										C	lient Sa	mple ID: Metho	d Blani
Matrix: Water													Prep Type: 1	Γotal/N <i>A</i>
Analysis Batch: 122938														
	ı	USB	USB											
Analyte	Re	sult	Qualifier		PQL	М	DL	Unit		D	Pre	pared	Analyzed	Dil Fa
Biochemical Oxygen Demand		2.0	U		2.0	;	2.0	mg/L					04/04/12 09:25	
Lab Sample ID: LCS 660-122938/3										Clie	ent S	ample	ID: Lab Control	Sample
Matrix: Water													Prep Type: 7	Total/N/
Analysis Batch: 122938														
				Spike		LCS	LC	S					%Rec.	
Analyte				Added		Result	Qu	alifier	Unit		D	%Rec	Limits	
Biochemical Oxygen Demand				198		219			mg/L		_	110	85.115	_
Lab Sample ID: 660-46910-1 DU										c	lien	t Samp	le ID: Leachate	Effluen
Matrix: Water												•	Prep Type:	Γotal/N/
Analysis Batch: 122938														
•	Sample	Sam	ple			DU	DU							RPI
Analyte	Result	Qual	ifier			Result	Qu	alifier	Unit		D		RP	D Limi
Biochemical Oxygen Demand	21					28.1	J3		mg/L		_		2	9 2



Project/Site: SELF, Leachate Trucks, EFF

General Chemistry					
Analysis Batch: 122918	}				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46906-C-1 DU	Duplicate	Total/NA	Water	SM 2540D	
660-46910-1	Leachate Effluent	Total/NA	Water	SM 2540D	
660-46910-2	Equipment Blank	Total/NA	Water	SM 2540D	
LCS 660-122918/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-122918/1	Method Blank	Total/NA	Water	SM 2540D	
Analysis Batch: 122938	}				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
660-46910-1	Leachate Effluent	Total/NA	Water	SM 5210B	
660-46910-1 DU	Leachate Effluent	Total/NA	Water	SM 5210B	
660-46910-2	Equipment Blank	Total/NA	Water	SM 5210B	
LCS 660-122938/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-122938/2 SCB	Method Blank	Total/NA	Water	SM 5210B	
USB 660-122938/1 USB	Method Blank	Total/NA	Water	SM 5210B	
Analysis Batch: 12295	;				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batci
660-46895-A-1 DU	Ouplicate	Total/NA	Water	SM 2540C	
660-46910-1	Leachate Effluent	Total/NA	Water	SM 2540C	
660-46910-2	Equipment Blank	Total/NA	Water	SM 2540C	
LCS 660-122955/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-122955/1	Method Blank	Total/NA	Water	SM 2540C	
Analysis Batch: 122974	Į.				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-46895-A-2 MS	Matrix Spike	Total/NA	Water	353.2	
660-46895-A-2 MS ^2	Matrix Spike	Total/NA	Water	353.2	
660-46895-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-46895-A-2 MSD ^2	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-46910-1	Leachate Effluent	Total/NA	Water	353.2	
660-46910-2	Equipment Blank	Total/NA	Water	353.2	
LCS 660-122974/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-122974/14	Method Blank	Total/NA	Water	353.2	
Prep Batch: 123153					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
640-38050-A-4-C MS	Matrix Spike	Total/NA	Water	SM 5220	
640-38050-A-4-D MSD	Matrix Spike Duplicate	Tctal/NA	Water	SM 5220	
660-46910-2	Equipment Blank	Total/NA	Water	SM 5220	
LCS 660-123153/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-123153/4-A	Method Blank	Total/NA	Water	SM 5220	
Analysis Batch: 123164	i				
maiysis batcii. 12310.		Prep Type	Matrix	Method	Prep Batc
Lab Sample ID	Client Sample ID	Ligh 13be			
	Client Sample ID Matrix Spike	Total/NA	Water	5220 D	12315
Lab Sample ID			Water Water	5220 D 5220 D	
Lab Sample ID 640-38050-A-4-C MS	Matrix Spike	Total/NA			12315
Lab Sample ID 640-38050-A-4-C MS 640-38050-A-4-D MSD	Matrix Spike Matrix Spike Duplicate	Total/NA Total/NA	Water	5220 D	12315: 12315: 12315: 12315:

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Leachate Effluent

Project/Site: SELF, Leachate Trucks, EFF

660-46910-1

TestAmerica Job ID: 660-46910-1

General Chemistry	(Continued)				
Prep Batch: 123166					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38046-C-2-B MS	Matrix Spike	Total/NA	Water	SM 5220	
640-38046-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-46910-1	Leachate Effluent	Tctal/NA	Water	SM 5220	
LCS 660-123166/5-A	Lab Control Sample	Tctal/NA	Water	SM 5220	
MB 660-123166/4-A	Method Blank	Total/NA	Water	SM 5220	
Analysis Batch: 123168	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38046-C-2-B MS	Matrix Spike	Total/NA	Water	5220 D	123166
640-38046-C-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	123166
660-46910-1	Leachate Effluent	Total/NA	Water	5220 D	123166
LCS 660-123166/5-A	Lab Control Sample	Total/NA	Water	5220 D	123166
MB 660-123166/4-A	Method Blank	Total/NA	Water	5220 D	123166
Field Service / Mob	ile Lab				
Analysis Batch: 123094	4				
Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
				E	

Total/NA

Water

Field Sampling

Lab Chronicle

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Client Sample ID: Leachate Effluent

Date Collected: 04/03/12 13:40 Date Received: 04/03/12 15:30 Lab Sample ID: 660-46910-1

Lab Sample ID: 660-46910-2

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prop Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	122918	04/04/12 08:57	то	TAL TAM
Total/NA	Analysis	SM 5210B		1	122938	04/04/12 15:09	EM	TAL TAM
Total/NA	Analysis	SM 2540C		1	122955	04/04/12 14:53	то	TAL TAM
Total/NA	Analysis	353.2		200	122974	04/04/12 12:50	KW	TAL TAM
Total/NA	Prep	SM 5220			123166	04/10/12 10:45	EM	TAL TAM
Total/NA	Analysis	5220 D		5	123168	04/10/12 15:10	EM	TAL TAM
Total/NA	Analysis	Field Sampling		1	123094	04/03/12 13:40		TAL TAM



Client Sample ID: Equipment Blank

Date Collected: 04/03/12 13:35

Date Received: 04/03/12 15:30

	Batch	Batch		Dilution	Batch	Prepared		
Prop Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	122918	04/04/12 08:57	TO	TAL TAM
Total/NA	Analysis	SM 5210B		1	122938	04/04/12 15:05	EM	TAL TAM
Total/NA	Analysis	SM 2540C		1	122955	04/04/12 14:53	TO	TAL TAM
Total/NA	Analysis	353.2		1	122974	04/04/12 11:01	KW	TAL TAM
Total/NA	Prep	SM 5220			123153	04/10/12 10:45	EM	TAL TAM
Total/NA	Analysis	5220 D		1	123164	04/10/12 14:45	EM	TAL TAM

Laboratory References:

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

Certification Summary

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

	**************************************		At Part of the Control of the Contro	
Laboratory	· Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Method	Method Description	Protocol	Laboratory
353,2	Nitrate	MCAWW	TAL TAM
5220 D	Chemical Oxygen Demand	SM20	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
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".

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

Laboratory References:

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

Sample Summary

Client: Hillsborough County Public Utilities Dep Project/Site: SELF,Leachate Trucks, EFF TestAmerica Job ID: 660-46910-1

Lab Sample ID	Cüent Sample ID	Matrix	Collected	Received
660-46910-1	Leachate Effluent	Water	04/03/12 13:40	04/03/12 15:30
660-46910-2	Equipment Blank	Water	04/03/12 13:35	04/03/12 15:30

660-46910

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

LEACHATE PLANT

SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION: B. M. Balloon D. TC.	PRECLEANED SAMPLE CONTAINERS; RELINQUISHED BY: ACCEPTED BY:	1. 1) 1/.7	REP. OF CONTRACT LAB. REP. OF SOLID WASTE DEPT	DATE TIME 3 26/2 1500 3-30-2 100
FIELD PARAMETERS: BY TIME TEMP COND PH DO TURB BY 1:40 129.97 1/0244 7.86 5.49 N/A = SAMPLE CONTAINERS OTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml PLASTIC 125 ml PLASTIC 1.25 ml GLASS 125 ml GLASS 250 ml PLASTIC / 250 ml PLASTIC 250 ml PLASTIC / 250 ml PLASTIC 300 ml PLASTIC / 500 ml PLASTIC 500 ml PLASTIC / 500 ml PLASTIC COLORS & SHEENS: SOUR PLASTIC / 11TER PLASTIC LITER PLASTIC / 11TER PLASTIC / 11TER PLASTIC LITER GLASS / 500 ml PLASTIC / 11TER PLASTIC LITER PLASTIC / 11TER PLAST	LOCATION: LEACHATE EFFLUENT PERSONAL ENGAGED IN SAMPLE COL	LECTI	SAMPLE MATRIX: WATER OT	HER MATRIX:
SAMPLE CONTAINERS CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED				
SAMPLE CONTAINERS CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED	BY TIME TEM	ÞΙ	COND I PH I DO	I TURB
QTY CONTAINER DESCRIPTION QTY CONTAINER DESCRIPTION PRESERVED 40 ml VIAL 40 ml VIAL 125 ml. PLASTIC 125 ml. PLASTIC 125 ml PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC LITER PLASTIC LITER PLASTIC LITER GLASS 500 ml. PLASTIC LITER GLASS 500 ml. PLASTIC LITER GLASS 500 ml. PLASTIC LITER PLASTIC 500 ml. PLASTIC LITER PLASTIC 500 ml. PLASTIC LITER PLASTIC 500 ml. PLASTI				
40 ml VIAL 125 ml. PLASTIC 125 ml GLASS 125 ml GLASS 125 ml GLASS 250 ml. PLASTIC 250 ml. PLASTIC 250 ml. PLASTIC 500 ml. PLASTIC LITER PLASTIC LITER PLASTIC LITER GLASS BACTERIAL 5 TOTAL NO. OF SAMPLES COLLECTED: COLORS & SHEENS: YES N/A NO COLLECTED ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT 3 -77 3:30 ACCEPTED BY: REP. OF CONTRACT LAB.		SAMPLI	E CONTAINERS	
125 ml PLASTIC 125 ml PLASTIC 125 ml GLASS 125 ml GLASS 125 ml GLASS 125 ml PLASTIC 250 ml PLASTIC 250 ml PLASTIC 250 ml GLASS 250 ml GL	QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
125 ml GLASS 125 ml GLASS 250 ml. PLASTIC		1		
250 ml. PLASTIC 250 ml. PLASTIC 250 ml. GLASS 250 ml. GLASS 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. GLASS 50				
250 ml. GLASS 250 ml. GLASS 500 ml. PLASTIC 500 ml. PLASTIC 500 ml. PLASTIC S00 ml. GLASS LITER PLASTIC LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS BACTERIAL BACTERIAL BACTERIAL BACTERIAL BACTERIAL DATE TIME				
S00 ml. PLASTIC S00 ml. PLASTIC S00 ml. GLASS S00 ml. GLASS S00 ml. GLASS LITER PLASTIC LITER PLASTIC LITER GLASS LITER GLASS BACTERIAL BACTERIAL BACTERIAL BACTERIAL BACTERIAL DATE TIME				
SOC m1. GLASS SOC m1. GLASS		ļ	Z5U MI. GLASS	
LITER PLASTIC LITER GLASS BACTERIAL TOTAL NO. OF SAMPLES COLLECTED: COLORS & SHEENS: YES N/A NO COLLECTED DATE TIME ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: REP. OF SOLID WASTE DEPT ACCEPTED BY: REP. OF CONTRACT LAB. DATE TIME RELINQUISHED BY: REP. OF CONTRACT LAB.		 		
LITER GLASS BACTERIAL TOTAL NO. OF SAMPLES COLLECTED: COLORS & SHEENS: YES N/A NO COLLECTED ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: REP. OF SOLID WASTE DEPT RELINQUISHED BY: REP. OF CONTRACT LAB.	Z LITER PLASTIC	 		
TOTAL No. OF SAMPLES COLLECTED: COLORS & SHEENS: YES N/A NO COLLECTED ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT REP. OF CONTRACT LAB.	LITER GLASS	 	LITER GLASS	
TOTAL No. OF SAMPLES COLLECTED: COLORS & SHEENS: YES N/A NO COLLECTED DATE TIME ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT REP. OF CONTRACT LAB. DATE TIME REP. OF CONTRACT LAB.		 		
ANALYSIS REQUESTED: MONTHLY LEACHATE PLANT PARAMETERS BOD TSS NITRATE TDS COD PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT 3-12 3:30 REP. OF CONTRACT LAB.			· -	
PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c ABOVE LISTED SAMPLES: REP. OF SOLID WASTE DEPT 3 -17 3:30 REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.		ANALYS	SIS REQUESTED:	4-5-72 1:40
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT 3-12 3:30 REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.				
·	PRESERVED SAMPLES PH < 2.0 4	ES_	SAMPLE STORAGE: COOLER	& ICE TO 4.0 c
COMMENT'S: 5,9° CU-07	ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY:		REP. OF SOLID WASTE DEPT REP. OF CONTRACT LAB.	HE TIME 3:30
	COMMENT'S: woff 0067		5.	9° CU-07

660-46910

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

RELINQUISHED BY: CAUNTY NUCL ACCEPTED BY:	Wity	REP. OF CONTRACT LAB. REP. OF SOLID WASTE DEPT	3/2/12/100 3-30-12 1:00	٥
LOCATION: EQUIPMENT BLANK PERSONAL ENGAGED IN SAMPLE COI				
		RAMETERS: N/A 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. PLASTIC		
500 ml. GLASS	- 	500 ml. PLASTIC 500 ml. GLASS	 	
2 LITER PLASTIC		LITER PLASTIC		
3 LITER PLASTIC LITER GLASS		LITER GLASS		
BACTERIAL		BACTERIAL		
COLORS & SHEENS: YES N/A	COLLEC	TED:	COLLECTED DATE TIME	
	ANALYS	IS REQUESTED:	4-3-128:25	Ze:/
MONTHLY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	<u>oo</u> ´	
PRESERVED SAMPLES PH < 2.0	ES	SAMPLE STORAGE: COOLER	& ICE TO 4.0 c	
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: COMMENT'S: Wolf 0067	7	REP. OF SOLID WASTE DEPT	DATE TIME 7-3-/2 10:30 1:4-3-/2 10:30 1:4-3-/2 10:30	3:30 3:30
COMMENT'S: WAR OAST			•	
				_

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-46910-1

Login Number: 46910

List Source: TestAmerica Tampa

List Number: 1 Creator: Snead, Joshua

Groutor, Grieda, Boshida		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9c Cu07
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	







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: 660-47403-1 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: 5/18/2012 3:32:15 PM

Nancy Robertson
Project Manager II

nancy.robertson@testamericainc.com

Review your project results through

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

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

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



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Definitions/Glossary

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

TestAmerica Job ID: 660-47403-1

Qualifiers

General Chemistry

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

1	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\$	Listed under the "O" 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)

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Job ID: 660-47403-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-47403-1

Comments

No additional comments.

Receipt

The samples were received on 5/1/2012 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7° C.

General Chemistry

Method SM 2540C: Due to a laboratory error, the TDS for sample Equipment Blank was analyzed after the hold time exceeded. The sample is flagged with Q.

Method SM 2540D: The sample duplicate %RPD associated with batch 124058 was outside control limits.

Method SM 5220D: matrix spike duplicate /MSD) recovery for batch 124296 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Method	Prep Type
Nitrate as N	120		50	10	mg/L	100	353.2	Total/NA
Chemical Oxygen Demand	510		20	10	mg/L	1	5220 D	Total/NA
Total Disselved Solids	4800		250	250	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	27		1.2	1.2	mg/L	1	SM 2540D	Total/NA
Biochemical Oxygen Demand	28		12	12	mg/L	1	SM 5210B	Total/NA
Field pH	7.68				SU	1	Field Sampling	Total/NA
Field Temperature	29.49				Degrees C	1	Field Sampling	Total/NA
Oxygen, Dissclved	6.20				mg/L	1	Field Sampling	Total/NA
Specific Conductance	9909				umhos/cm	1	Field Sampling	Total/NA

No Detections

Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 05/01/12 12:50 Date Received: 05/01/12 14:40

Oxygen, Dissolved

Specific Conductance

Lab Sample ID: 660-47403-1

05/01/12 12:50

05/01/12 12:50

Matrix: Water

-	General Chemistry Analyte	B14	Qualifier	501			_			
	Allalyto	Result	Qualitier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Nitrate as N	120		50	10	mg/L			05/02/12 17:46	100
	Chemical Oxygen Demand	510		20	10	mg/L		05/09/12 10:16	05/09/12 12:25	1
	Total Dissolved Solids	4800		250	250	mg/L			05/04/12 13:33	1
İ	Total Suspended Solids	27		1.2	1.2	mg/L			05/03/12 08:10	1
	Biochemical Oxygen Demand	28		12	12	mg/L			05/02/12 11:46	1
	Method: Field Sampling - Field S	ampling								
1	Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzod	Dil Fac
İ	Field pH	7.68				SU			05/01/12 12:50	1
	Field Temperature	29.49				Degrees C			05/01/12 12:50	1

6.20

9909

mg/L

umhos/cm



Client Sample Results

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Client Sample ID: BLANK EQUIPMENT 47403

Date Collected: 05/01/12 12:40 Date Received: 05/01/12 14:40

Lab Sample ID: 660-47403-2

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			05/02/12 17:39	1
	Chemical Oxygen Demand	10	U	20	10	mg/L		05/09/12 09:42	05/09/12 12:00	1
	Total Dissolved Solids	5.0	UQ	5.0	5.0	mg/L			05/17/12 14:30	1
1	Total Suspended Solids	1.0	U	1.0	1.0	mg/L			05/03/12 08:10	1
	Bicchemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			05/02/12 11:46	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Method: 353.2 - Nitrate															
Lab Sample ID: MB 660-124134/14												Client S	ample ID: M	ethod	Blank
Matrix: Water													Prep Typ	e: Tot	al/NA
Analysis Batch: 124134															
Anatoria	_		MB												
Analyte Nitrate as N	R		Qualifier		PQL		MDL U			. <u>D</u> .	P	repared	Analyzed		Dil Fac
		0.10	U		0.50		0.10 m	ng/L					05/02/12 17	27	
- Lab Sample ID: LCS 660-124134/15	:									C	iont	Sample	ID: Lab Con	++A1 Q+	
Matrix: Water										O,	IGII	Jampie	Prep Typ		-
Analysis Batch: 124134													110011		AP11/
•				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qualific	or 1	Unit		D	%Rec	Limits		
Nitrate Nitrite as N				1.00		0.978		i	mg/L		-	98	90 - 110	— ·	
Nitrite as N				0.500		0.484	1		mg/L			97	90 - 110		
-															
Lab Sample ID: 660-47418-L-1 MS												Client	Sample ID: N	Aatrix :	Spike
Matrix: Water													Ргер Тур	e: Tot	a!/NA
Analysis Batch: 124134		_	_												
Amakas	Sample	•		Spike			MS				_		%Rec.		
Analyte Nitrate Nitrite as N	Result			Added			Qualific		Unit		D	%Rec	Limits		
	0.10	-		1.00		1.03			mg/L			103	90 - 110		
Nitrite as N	0.10	U		0.500		0.510		'	mg/L			102	90 - 110		
Lab Sample ID: 660-47418-L-1 MSD	,									Clier	c.	mnto ID	. Matrix Cail	- D.	linata
Matrix: Water	•									Cilei	IL J	illibie in	: Matrix Spik Prep Typ	-	
Analysis Batch: 124134													Lieb i At	ie. 10t	airinn
Analysis baton. 124104	Sample	Samo	ole	Spike		MSD	MSD						%Rec.		RPC
Analyte	Result	-		Added			Qualific	or I	Unit		D	%Rec	Limits	RPD	Limit
Nitrate Nitrite as N	0.10	Ų	—	1.00		1.03			mg/L			103	90 - 110	0	30
Nitrite as N	0.10	U		0.500		0.509			mg/L			102	90 _ 110	0	30
		*** ***													
Method: 5220 D - Chemical Ox	ygen [Dema	and												
- Lab Sample ID: MB 660-124279/4-A	١											Client S	ample ID: Mo	thod	Blank
Matrix: Water													Prep Typ	e: Tot	al/NA
Analysis Batch: 124297													Prep Ba	tch: 1	24279
	_		MB								_				
Analyte	R		Qualifier		PQL		MDL U			. <u>D</u> .		repared	Analyzed		Dil Fac
Chemical Oxygen Demand		10	U		20		10 m	ig/L			05/0	9/12 09:42	05/09/12 12	00	1
Lab Sample ID: LCS 660-124279/5-	A									CI	ient	Sample	ID: Lab Con	trol Sa	ample
Matrix: Water													Prep Typ		-
Analysis Batch: 124297													Prep Ba		
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qualific	or (Unit		0	%Rec	Limits		
Chemical Oxygen Demand		_		50.0		51.2			mg/L		_	102	90 - 110		
												Client	Sample ID: 1	Antein I	Snike
Lab Sample ID: 660-47419-B-1-R M	S														June
Lab Sample ID: 660-47419-B-1-B M Matrix: Water	s												Sample ID: N		al/NA
	s												Prep Typ	e: Tot	
	S Sampte	Samı	ple	Spike		MS	MS							e: Tot	
Matrix: Water				Spike Added			MS Qualific	or (Unit		D	%Rec	Prep Typ Prep Ba	e: Tot	



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

TestAmerica Job ID: 660-47403-1

Method: 5220 D - Chemical Ox	ygen (Demand (C	ontinue	٦)									
Lab Sample ID: 660-47419-B-1-C M	SD							Clie	nt S	ample ID	: Matrix Spi	ike Du	plicate
Matrix: Water											Prep Ty	pe: To	otal/NA
Analysis Batch: 124297											Prep B	atch:	124279
Analista	•	Sample	Spike			MSD					%Rec.		RPD
Analyte Chemical Oxygen Demand	Result 28	Qualifier	Added 50.0		Result 75.2	Qualifior	Unit mg/L		D -	%Rec 95	90 - 110	RPD 1	Limit 20
 							-						
Lab Sample ID: MB 660-124281/4-A Matrix: Water										Client S	ample ID: N		
Analysis Batch: 124296											Prep Ty		
		мв мв									Prep B	atcn:	124281
Analyte	R	esult Qualifier		PQL		MDL Unit		D	F	repared	Analyze	d	Dil Fac
Chemical Oxygen Demand		10 U		20		10 mg/L				9/12 10:16	05/09/12 1		1
- -						-							
Lab Sample ID: LCS 660-124281/5-	A							С	lien	t Sample	ID: Lab Co	ntrol S	Sample
Matrix: Water											Prep Ty	pe: To	otal/NA
Analysis Batch: 124296											Prep B	atch:	124281
Austra			Spike			LCS					%Rec.		
Analyte			Added			Qualifler	Unit		D	%Rec	Limits		
Chemical Oxygen Demand			200		191		mg/L			96	90 - 110		
 Lab Sample ID: 640-38419-A-1-B M	s									Client	Sample ID:	Matrix	, Baika
Matrix: Water	•									Chent.	Prep Ty		
Analysis Batch: 124296											Prep B		
	Sample	Sample	Spike		MS	MS					%Rec.	alcii.	124201
Analyte	•	Qualifier	Added			Qualifier	Unit		D	%Rec	Limits		
Chemical Oxygen Demand	2700	J3	100		2820		mg/L			90	90 - 110		
Lab Sample ID: 640-38419-A-1-C M	SD							Clie	nt S	ample ID:	: Matrix Spi	ke Du	plicate
Matrix: Water											Prep Ty		-
Analysis Batch: 124296											Prep B		
	Sample	Sample	Spike		MSD	MSD					%Rec.		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	2700	J3	100		2820	J3	mg/L		-	86	90 - 110	0	20
Method: SM 2540C - Solids, To	otal Dis	solved (TD	OS)	- •- -							 		
Lab Sample ID: MB 660-124146/1										Client S:	ample ID: N	lethod	l Blank
Matrix: Water											Prep Ty		
Analysis Batch: 124146												pc	JUS (1174
•		мв мв											
Analyte	R	esult Qualifier		PQL		MDL Unit		D	F	repared	Analyze	d	Dil Fac
Total Dissolved Solids		5.0 U		5.0		5.0 mg/L				<u> </u>	05/04/12 1		1
Lab Sample ID: LCS 660-124146/2								_	lic-	t Camala	ID: Lab Ca	nesal C	2a1-
Matrix: Water								Ü	nen	ı əarnpie	ID: Lab Co		-
Analysis Batch: 124146											Prep Ty	pe: ro	otai/NA
rangolo Duton. 147170			Spike		LCS	LCS					%Rec.		
			~~~~								,		
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits		



Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued) Lab Sample ID: 660-47372-A-1 DU Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA Analysis Batch: 124146 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit D RPD Limit **Total Dissolved Solids** 1200 1140 mg/L 20 Lab Sample ID: MB 660-124611/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 124611 мв ме Analyte Result Qualifier POL MDL Unit Prepared Analyzed Dil Fac Total Dissolved Solids 5.0 ū 5.0 5.0 mg/L 05/17/12 13:59 Lab Sample ID: LCS 660-124611/2 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 124611 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **Tctal Dissolved Solids** 10000 9860 mq/L 80 - 120 99 Lab Sample ID: 660-47671-A-4 DU Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA Analysis Batch: 124611 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit Limit Total Dissolved Solids 200 204 mg/L 20 Method: SM 2540D - Solids, Total Suspended (TSS) Lab Sample ID: MB 660-124058/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA Analysis Batch: 124058 MR MA Analyte Result Qualifier PQL **MDL** Unit Prepared Analyzed Dil Fac **Total Suspended Solids** 1.0 Ū 1.0 1.0 mg/L 05/03/12 08:10 Lab Sample ID: LCS 660-124058/2 Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 124058 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Total Suspended Solids 100 97.2 mg/L 97 80 - 120 Lab Sample ID: 660-47380-C-5 DU Client Sample ID: Duplicate Matrix: Water Prep Type: Total/NA Analysis Batch: 124058 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit Limit Total Suspended Solids 18 27.2 J3 mg/L 41 20



Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Matrix: Water

Analyte

Analysis Batch: 124019

Biochemical Oxygen Demand

Sample Sample

2.7

Result Qualifier

TestAmerica Job ID: 660-47403-1

Method: SM 5210B - BOD, 5-Day													
Lab Sample ID: SCB 660-124019/2 SCB Matrix: Water											Client S	Sample ID: Metho	
												Prep Type:	Total/NA
Analysis Batch: 124019	500												
A		SCB											
Analyte		Qualifier		PQL			Unit		D	Pı	repared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U		2.0		2.0	mg/L					05/02/12 11:46	1
Lab Sample ID: USB 660-124019/1 USB											Client S	Sample ID: Metho	d Blank
Matrix: Water												Prep Type:	
Analysis Batch: 124019													
•	USB	USB											
Analyte	Result	Qualifier		PQL		MDL	Unit		D	Pi	repared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U		2.0		2.0	mg/L					05/02/12 11:46	1
Lab Sample ID: LCS 660-124019/3									Cli	ient	Sample	ID: Lab Control	Sample
Matrix: Water											•	Prep Type: 1	•
Analysis Batch: 124019													
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Biochemical Oxygen Demand			198		215			mg/L	•		108	85 - 115	
Lab Sample ID: 660-47390-F-4 DU											Clie	ent Sample ID: D	unlicate
• • • • • • • • • • • • • • • • • • • •											7111	300. 0	

DU DU

2.0 U

Result Qualifier

Unit

mg/L



Prep Type: Total/NA

RPD

Limit

20

### **QC Association Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Analysis Batch: 124019				,	
<del>-</del>					
Lab Sample ID 660-47390-F-4 DU	Client Sample ID  Duplicate	Prep Type Total/NA	Matrix	Method	Prep Batc
660-47403-1	LEACHATE EFFLUENT		Water	SM 5210B	
660-47403-2		Total/NA	Water	SM 5210B	
	BLANK EQUIPMENT 47403	Total/NA	Water	SM 5210B	
LCS 660-124019/3	Lab Control Sample	Total/NA	Water	SM 5210B	
SCB 660-124019/2 SCB USB 660-124019/1 USB	Method Blank Method Blank	Total/NA	Water	SM 5210B	
	method blank	Total/NA	Water	SM 5210B	
Analysis Batch: 124058					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-47380-C-5 DU	Duplicate	Total/NA	Water	SM 2540D	
660-47403-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540D	
660-47403-2	BLANK EQUIPMENT 47403	Total/NA	Water	SM 2540D	
LCS 660-124058/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-124058/1	Method Blank	Total/NA	Water	SM 2540D	
Analysis Batch: 124134					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
660-47403-1	LEACHATE EFFLUENT	Total/NA	Water	353.2	
660-47403-2	BLANK EQUIPMENT 47403	Total/NA	Water	353.2	
660-47418-L-1 MS	Matrix Spike	Total/NA	Water	353.2	
660-47418-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
LCS 660-124134/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-124134/14	Method Blank	Total/NA	Water	353.2	
Analysis Batch: 124146					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
660-47372-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-47403-1	LEACHATE EFFLUENT	Total/NA	Water	SM 2540C	
LCS 660-124146/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-124146/1	Method Blank	Total/NA	Water	SM 2540C	
Prep Batch: 124279					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
660-47403-2	BLANK EQUIPMENT 47403	Total/NA	Water	SM 5220	
660-47419-B-1-B MS	Matrix Spike	Total/NA	Water	SM 5220	
660-47419-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
LCS 660-124279/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
MB 660-124279/4-A	Method Blank	Total/NA	Water	SM 5220	
Prep Batch: 124281					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
640-38419-A-1-B MS	Matrix Spike	Total/NA	Water	SM 5220	
640-38419-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
660-47403-1	LEACHATE EFFLUENT	Total/NA	Water	SM 5220	
LCS 660-124281/5-A	Lab Centrol Sample	Total/NA	Water	SM 5220	
	Method Blank	Total/NA	Water	SM 5220	
MB 660-124281/4-A					
MB 660-124281/4-A					
MB 660-124281/4-A	Client Sample ID	Prep Type	Matrix	Method	Prep Batci
MB 660-124281/4-A Analysis Batch: 124296		Prep Type Total/NA	Matrix Water	Method 5220 D	Prep Batci 12428
MB 660-124281/4-A Analysis Batch: 124296 Lab Sample ID	Client Sample ID	<del></del>			<del></del>

## **QC Association Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

<b>General Chemistry</b>	(Continued)				
Analysis Batch: 12429	6 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-124281/5-A	Lab Control Sample	Total/NA	Water	5220 D	124281
MB 660-124281/4-A	Method Blank	Total/NA	Water	5220 D	124281
Analysis Batch: 12429	7				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-47403-2	BLANK EQUIPMENT 47403	Total/NA	Water	5220 D	124279
660-47419-B-1-B MS	Matrix Spike	Total/NA	Water	5220 D	124279
660-47419-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	124279
LCS 660-124279/5-A	Lab Control Sample	Total/NA	Water	5220 D	124279
MB 660-124279/4-A	Method Blank	Total/NA	Water	5220 D	124279
Analysis Batch: 12461	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-47403-2	BLANK EQUIPMENT 47403	Total/NA	Water	SM 2540C	<del></del>
660-47671-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	
LCS 660-124611/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-124611/1	Method Blank	Total/NA	Water	SM 2540C	
Field Service / Mob	ile Lab				
Analysis Batch: 12406	4				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-47403-1	LEACHATE EFFLUENT	Total/NA	Water	Field Sampling	



#### Lab Chronicle

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Client Sample ID: LEACHATE EFFLUENT

Date Collected: 05/01/12 12:50 Date Received: 05/01/12 14:40 Lab Sample ID: 660-47403-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Mothod	Run	Factor	Numbor	or Analyzod	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	124019	05/02/12 11:46	AG	TAL TAM
Total/NA	Analysis	SM 2540D		1	124058	05/03/12 08:10	то	TAL TAM
Total/NA	Analysis	353.2		100	124134	05/02/12 17:46	EM	TAL TAM
Total/NA	Analysis	SM 2540C		1	124146	05/04/12 13:33	то	TAL TAM
Total/NA	Prep	SM 5220			124281	05/09/12 10:16	ЕМ	TAL TAM
Total/NA	Analysis	5220 D		1	124296	05/09/12 12:25	ЕМ	TAL TAM
Total/NA	Analysis	Field Sampling		1	124064	05/01/12 12:50		TAL TAM

Lab Sample ID: 660-47403-2

Matrix: Water

Client Sample ID: BLANK EQUIPMENT 47403

Date Collected: 05/01/12 12:40

Date Received: 05/01/12 14:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	124019	05/02/12 11:46	ĀĠ	TAL TAM
Total/NA	Analysis	SM 2540D		1	124058	05/03/12 08:10	TO	TAL TAM
Total/NA	Analysis	353.2		1	124134	05/02/12 17:39	EM	TAL TAM
Total/NA	Prep	SM 5220			124279	05/09/12 09:42	EM	TAL TAM
Total/NA	Analysis	5220 D		1	124297	05/09/12 12:00	EM	TAL TAM
Total/NA	Analysis	SM 2540C		1	124611	05/17/12 14:30	то	TAL TAM

Laboratory References:

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

## **Certification Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

			ALAMAKA DIRITATI STANDARDA	
Laboratory	Authority	Program	EPA Region	Certification ID
FestAmerica Tampa	Alabama	State Program	4	40610
estAmerica Tampa	Florida	NELAC	4	E84282
estAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



#### **Method Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-47403-1

Method	Method Description	Protocol	Laboratory
353.2	Nitrale	MCAWW	TAL TAM
5220 D	Chemical Oxygen Demand	SM20	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
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".

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

#### **Laboratory References:**

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



## **Sample Summary**

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

TestAmerica Job ID: 660-47403-1

	*** 1.00 \$ 4.4000 PINE TO 1 \$ 1000 PINE			
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-47403-1	LEACHATE EFFLUENT	Water	05/01/12 12:50	05/01/12 14:40
660-47403-2	BLANK EQUIPMENT 47403	Water	05/01/12 12:40	05/01/12 14:40

### 18

# 660-47403

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

		LEACHATE			ATE P		G PROGRAM	
PRECI	EANED SAMPI	E CONTATI				TIT 1 T		DATE   TIME
RELIN	QUISHED BY		······································		REP. OF	F CONTRAC	T LAB.	1
ACCEP	TED BY:	12 C	Last		REP. OF	SOLID W	ASTE DEPT	· 5.1.12 /0:0C
			•					
LOCAT	ION: LEACH	ATE EFFLU	ENT		SAMPLE	MATRIX:_	WATER OT	HER MATRIX:
PERSO	NAL ENGAGE	O IN SAMP	LE COLLE	CTI	ON: DA	.Balloon	Es. Clayte	. 0
			CTC	חדי	וח מוא א מי ע מ	enc.	_	
			<u> </u>	חחי	PARAMETI	<u>rks:</u>		
	BY	TIME				PH	L DO	TURB
	AB SC	12:50	29.49	-	1909	7.48	6.20	N/A =
QTY	CONTAINE	R DESCRIPTION	· · · · · · · · · · · · · · · · · · ·	MPLE OTY	CONTAI	NERS AINER DESCR	LIPTION	PRESERVED
		ml-VIAL				-40-mi-VIA		
	125 m	. PLASTIC			12	25 ml. PLAS	TIC	
-		ml GLASS		•	25	125 ml GLA 50 ml. PLAS	SS	
	250 r	nl. GLASS		-1	1	250 ml. GLA	SS	
	500 m	. PLASTIC			50	00 ml. PLAS	TIC	
3		nl. GLASS R PLASTIC				500 ml. GLA LITER PLAST		
<del>-9</del>	LIT	ER GLASS				LITER GLAS	SS	
	BAG	CTERIAL				BACTERIAI	,	
COLOR	TOTAL N	o. OF SAM	N/A		1			COLLECTED DATE   TIME
			<u>A1</u>	IALYS	IS REQUES	TED:		
MONTHI	LY LEACHATE P	LANT PARAME	TERS	BOD	TSS N	IITRATE	TDS CC	<u>DD</u>
PRESE	ERVED SAMPL	ES PH < 2	.c		SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c
ABOVE RELIN ACCE	E LISTED SA NQUISHED BY PTED BY:	MPLES:	Inchu	ltg	REP. O	F SOLID W F CONTRAC	ASTE DEPI T LAB.	DATE   TIME  . 5.1.2   1440  5.1.2   1440

COMMENT'S: WOH OOLT

4.7000-67

# Æ

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

PRECLEANED SAMPLE CONTAINERS	<u>:</u>	DED OF COMPAGE 733	DATE   TIME
RELINQUISHED BY: ACCEPTED BY:		REP. OF CONTRACT LAS.	T. 5112 1000
LOCATION: EQUIPMENT BLANK PERSONAL ENGAGED IN SAMPLE C	OLLECTI	SAMPLE MATRIX: WATER O	511:mm
	SAMPLE	CONTAINERS	
QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
40 ml VIAL		40 ml VIAL	
125 ml. PLASTIC		125 ml. PLASTIC	
125 m2 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	
3 LITER PLASTIC		LITER PLASTIC	
LITER GLASS	<del></del>	LITER GLASS	
BACTERIAL		BACTERIAL	<del></del>
TOTAL No. OF SAMPLES  COLORS & SHEENS: YES N/A		NO	COLLECTED DATE   TIME S.1.12   12:4 0
MONIMUM V TEROVISME DIRAM DIRAM		IS REQUESTED:	
MONTHLY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS C	<u>OD</u>
PRESERVED SAMPLES PH < 2.0		SAMPLE STORAGE: _COOLER	& ICE TO 4.0 c
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY:	e Maty.	REP. OF SOLID WASTE DEP'	DATE   TIME 5.1,12   2:40 5.1,12   2:40
COMMENT'S:	V		••
	<del></del>		

#### **Login Sample Receipt Checklist**

Client: Hillsborough County Public Utilities Dep

Job Number: 660-47403-1

Login Number: 47403

List Source: TestAmerica Tampa

List Number: 1 Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	4.7 deg C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





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: 660-48028-1 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: 6/19/2012 1:31:14 PM

Nancy Robertson Project Manager II

nancy.robertson@testamericainc.com

Review your project

results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

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

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

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



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Sample Summary	
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#### **Definitions/Glossary**

Client: Hillsborough County Public Utilities Dep

Toxicity Equivalent Factor (Dioxin)

**Toxicity Equivalent Quotient (Dioxin)** 

Project/Site: Leachate Effluent

TEF

TEQ

TestAmerica Job ID: 660-48028-1

#### Qualifiers **General Chemistry** Qualifier Qualifier Description Ū Indicates that the compound was analyzed for but not detected. JЗ Estimated value; value may not be accurate. Spike recovery or RPD 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 United States Environmental Protection Agency Method Detection Limit MDL 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

#### **Case Narrative**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Job ID: 660-48028-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-48028-1



No additional comments.

#### Receipt

The samples were received on 6/5/2012 2:30 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 SM 5220D: Due to the high concentration of analyte, the matrix spike / matrix spike duplicate (MS/MSD) for batch 125234 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. The sample is flagged with J3.

Method SM 5220D: The matrix spike (MS) recovery for batch 125421 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

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# **Detection Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Client Sample ID: Leachate	Effluent					La	b Sample ID:	660-48028
Analyte	Result	Qualifier	PQL	MDL	Unit	Olf Fac	D Method	Ргер Туре
Chemical Oxygen Demand	660	J3	20	10	mg/L	1	5220 D	Total/NA
Nitrate as N	0.82		0.010	0.0047	mg/L	1	Nitrate by calc	Total/NA
Total Dissolved Solids	5100		250	250	mg/L	1	SM 2540C	Total/NA
Total Suspended Solids	27		1.0	1.0	mg/L	1	SM 2540D	Total/NA
Field pH	8.00				SU	1	Field Sampling	Total/NA
Field Temperature	31.57				Degrees C	1	Field Sampling	Total/NA
Oxygen, Dissolved	5.18				mg/L	1	Field Sampling	Total/NA
Specific Conductance	10389				umhos/cm	1	Field Sampling	Total/NA
lient Sample ID: Equipme	nt Blank 4802	8				La	b Sample ID:	660-48028

No Detections

### **Client Sample Results**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Client Sample ID: Leachate Effluent

Date Collected: 06/05/12 12:40 Date Received: 06/05/12 14:30 Lab Sample ID: 660-48028-1

Matrix: Water

General Chemistry Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	660	J3	20	10	mg/L		06/06/12 12:00	06/06/12 16:30	1
Nitrate as N	0.82		0.010	0.0047	mg/L			06/11/12 18:07	1
Total Dissolved Solids	5100		250	250	mg/L			06/11/12 14:53	1
Total Suspended Solids	27		1.0	1.0	mg/L			06/06/12 06:03	1
Biochemical Oxygen Demand	40	U	40	40	mg/L			06/06/12 10:40	1
Method: Field Sampling - Field	Sampling								
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	8.00				SU			06/05/12 12:40	1
Field Temperature	31.57				Degrees C			06/05/12 12:40	1
Oxygen, Dissolved	5.18				mg/L			06/05/12 12:40	1
Specific Conductance	10389				umhos/cm			06/05/12 12:40	1



### **Client Sample Results**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Client Sample ID: Equipment Blank 48028

Date Collected: 06/05/12 12:30

Date Received: 06/05/12 14:30

Lab Sample ID: 660-48028-2

Matrix: Water

_									
General Chemistry Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	Ū	20	10	mg/L	<del></del> -	06/12/12 11:13	06/12/12 13:39	
Nitrate as N	0.0047	υ	0.010	0.0047	mg/L			06/11/12 18:15	1
Total Dissolved Solids	5,0	U	5.0	5.0	mg/L			06/11/12 14:55	1
Total Suspended Solids	1.0	ט	1.0	1.0	mg/L			06/06/12 06:03	1
Biochemical Oxygen Demand	2.0	υ	2.0	2.0	mg/L			06/06/12 10:40	1



## **QC Sample Results**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Method: 5220 D - Chemical	Oxygen E	emand										
 Lab Sample ID: MB 660-125228	/4-A								Client S	ample ID:	Method	Blank
Matrix: Water										Prep T	ype: To	tal/NA
Analysis Batch: 125234											Batch: 1	
		мв мв										
Analyte	R	esult Qualifier		PQL		MDL Unit		D F	Prepared	Analya	ed .	Dil Fac
Chemical Oxygen Demand		10 U	****	20		10 mg/L			06/12 12:00			1
Lab Sample ID: LCS 660-12522	8/5-A							Clien	t Sample	ID: Lab C	ontrol S	amole
Matrix: Water								0			ype: To	•
Analysis Batch: 125234											Batch: 1	
·			Spiko		LCS	LCS				%Rec.	Dalcii.	23220
Analyte			Added			Qualifier	Unit	D	%Rec	Limits		
Chemical Oxygen Demand		<del></del>	200	. —	187		mg/L		94	90 - 110		
ː Lab Sample ID: 660-48028-1 MS	2							CII	ant Came	do IDe Loo	obota S	£61
Matrix: Water	•							CII	ent Samb	ole ID: Lea		
										-	ype: To	
Analysis Batch: 125234										•	Batch: 1	25228
	_	Sample	Spike		MS					%Rec.		
Analyte		Qualiflor	Added		Result		Unit	D	%Rec	Limits		
Chemical Oxygen Demand	660	J3	100		667	J3	mg/L		3	90 - 110		
Lab Sample ID: 660-48028-1 MS	SD							Cli	ent Samp	ole ID: Lea	chate E	ffluent
Matrix: Water										Prep T	ype: To	tal/NA
Analysis Batch: 125234										Prep l	Batch: 1	25228
•	Sample	Sample	Spiko		MSD	MSD				%Rec.		RPD
Analyte	Result	Qualiflor	Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	660	J3	100	•••••	649	J3	mg/L		-16	90 - 110	3	20
Lab Sample ID: MB 660-125420	<i>Ι</i> Δ-Δ								Client S	ample ID:	Mathad	Blank
Matrix: Water									Onem 5	-		
Analysis Batch: 125421										-	ype: To	
Allalysis Batch. 123421		мв мв								Prep	Batch: 1	25420
Analyte		sult Qualifier		BOL		MDI IInia				A		511 F
Chemical Oxygen Demand			<del></del>	PQL		MDL Unit			repared	Analyz		Dil Fac
- - -		10 U		20		10 mg/L		06/	12/12 11:13	06/12/12	13:39	1
Lab Sample ID: LCS 660-12542	0/5-A							Clien	t Sample	ID: Lab C		-
Matrix: Water										Prep T	ype: To	tal/NA
Analysis Batch: 125421										Prep l	Batch: 1	25420
			Spike		LCS	LCS				%Rec.		
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits		
Chemical Oxygen Demand			50.0		53.5		mg/L		107	90 - 110		
Lab Sample ID: 660-48101-H-1-	B MS								Client	Sample ID	: Matrix	Snike
Matrix: Water										=	уре: То	•
Analysis Batch: 125421											Batch: 1	
,	Sample	Sample	Spike		MS	MS				%Rec.	saton. I	25420
Analyte	-	Qualifier	Added			Qualifier	Unit	D	%Rec	Limits		
Chemical Oxygen Demand	33		50.0		103		mg/L	<del>-</del>	141	90 - 110		
Lab Sample ID: 660-48101-H-1-	C MSD							Cliant S	amnic ID	· Matric C-	sika D	nlieste
Matrix: Water	- 11100							Olletif 2	emhis in	: Matrix Sp	-	
Analysis Batch: 125421										-	ype: To	
Allerysis Dettil: 129421	Sample	Sample	Spike		Meu	MSD				•	Batch: 1	
Analyte		Qualifier	Added			Qualifier	Unit	_	W.Dos	%Roc.	200	RPD
Chemical Oxygen Demand	33	<del></del>	50.0		82.2		mg/L	D	%Rec 99	90 - 110	RPD 23	Limit 20
-	3.										20	20



# **QC Sample Results**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Lab Sample ID: MB 660-125382/1												Client S	Sample ID: Met	had B	lank
Matrix: Water												Olient 3	Prep Type		
Analysis Batch: 125382															
		MB	MB												
Analyte	R		Qualifier		PQL		MDL U			D	Pr	repared	Analyzed	Di	il Fac
Total Dissolved Solids		5.0	U		5.0		5.0 m	/L					06/11/12 14:49	)	1
Lab Sample ID: LCS 660-125382/2										Cli	ent	Sample	ID: Lab Contr	ol San	nple
Matrix: Water												-	Prep Type		
Analysis Batch: 125382															
				Spike		LCS	LCS						%Rec.		
Analyte			<b></b>	DebbA			Qualifio		nit		D	%Rec	Limits		
Total Dissolved Solids				10000		9850		m	g/L			99	80 - 120		
Lab Sample ID: 640-38915-A-1 DU												Clie	ent Sample ID:	Dupli	cate
Matrix: Water													Prep Type	-	
Analysis Batch: 125382													• ••		
	Sample	Sam	ple			DŲ	DU								RPD
Analyte	Result	Qua	liflor			Result	Qualifie	r U	nit		D		R	PD	Limit
Total Dissolved Solids	94					94.0		m	g/L					0	20
													Prep Type	: Total	!/NA
Analysis Batch: 125181		MB	MB Ourliffer		BOL		1451 14	IA.			0-				
Analysis Batch: 125181 Analyte	R	MB esult	Qualifier	<b>-</b>	PQL 1.0		MDL U	-		<u>D</u>	Pr	opared	Analyzed 06/06/12 06:03	Di	il Fac
Analysis Batch: 125181  Analyte  Total Suspended Solids	R	esult	Qualifier	<b>-</b>				-				· · · · · · · · · · · · · · · · · · ·	Analyzed 06/06/12 06:03	Di	il Fac
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2	R	esult	Qualifier	<del>-</del>				-				· · · · · · · · · · · · · · · · · · ·	Analyzed 06/06/12 06:03	Di ol San	il Fac 1 nple
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water	R	esult	Qualifier	<b>-</b>				-				· · · · · · · · · · · · · · · · · · ·	Analyzed 06/06/12 06:03	Di ol San	il Fac 1 nple
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water	R	esult	Qualifier	Spike		LCS		-				· · · · · · · · · · · · · · · · · · ·	Analyzed 06/06/12 06:03	Di ol San	il Fac 1 nple
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181	R	esult	Qualifier	Added		Result	1.0 m	VL	nit			· · · · · · · · · · · · · · · · · · ·	Analyzed 06/06/12 06:03 D: Lab Contr Prep Type	Di ol San	il Fac 1 nple
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181	R	esult	Qualifier	•			1.0 m	ýL U	nit		ent	Sample	Analyzed 06/06/12 06:03 D: Lab Contr Prep Type %Rec.	Di ol San	il Fac 1 nple
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyte  Fotal Suspended Solids	R	esult	Qualifier	Added		Result	1.0 m	ýL U			ent	Sample *Rec	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 - 120	ol San	il Fac 1 nple I/NA
Analysis Batch: 125181  Analysis Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyte Fotal Suspended Solids  Lab Sample ID: 660-48024-C-1 DU	R	esult	Qualifier	Added		Result	1.0 m	ýL U			ent	Sample *Rec	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 . 120 Pent Sample ID:	ol San: Total	il Fac
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water	R	esult	Qualifier	Added		Result	1.0 m	ýL U			ent	Sample *Rec	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 - 120	ol San: Total	il Fac
Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyte  Fotal Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water	R	1.0	Qualifier	Added		Result 111	1.0 m	ýL U			ent	Sample *Rec	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 . 120 Pent Sample ID:	ol San : Total Duplic	il Fac 1 mple I/NA cate
Analysis Batch: 125181  Analyse  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyse  Fotal Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water  Analysis Batch: 125181		1.0	Qualifier U	Added		Result 111	1.0 me	r <u>U</u>			ent	Sample *Rec	Analyzed 06/06/12 06:03 e ID: Lab Contr Prep Type %Rec. Limits 80 - 120 ent Sample ID: Prep Type	ol San : Total Duplic	il Fac
Analysis Batch: 125181  Analyse  Fotal Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyse  Fotal Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water  Analysis Batch: 125181	Sample	1.0	Qualifier U	Added		Result 111	LCS Qualifio	r Ui	g/L		D .	Sample *Rec	Analyzed 06/06/12 06:03 e ID: Lab Contr Prep Type %Rec. Limits 80 - 120 ent Sample ID: Prep Type	ol San : Total Duplic	il Fac
Analysis Batch: 125181  Analyse Total Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water  Analysis Batch: 125181  Analyse Total Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water  Analysis Batch: 125181  Analysis Batch: 125181	Sample Result	1.0	Qualifier U	Added		Result 111 DU Result	LCS Qualifio	r Ui	g/L nit		D .	Sample *Rec	Analyzed 06/06/12 06:03 e ID: Lab Contr Prep Type %Rec. Limits 80 - 120 ent Sample ID: Prep Type	Di San : Total Duplic : Total	il Fac 1 nple I/NA cate
Analysis Batch: 125181  Analyse Total Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water Analysis Batch: 125181  Analyse Total Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water Analysis Batch: 125181  Analyse Total Suspended Solids  Interpretation of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Sample Result 35	1.0	Qualifier U	Added		Result 111 DU Result	LCS Qualifio	r Ui	g/L nit		D	%Rec 111 Clie	Analyzed 06/06/12 06:03 e ID: Lab Contr Prep Type %Rec. Limits 80 - 120 ent Sample ID: Prep Type	Duplic: Total	il Fac  1 mple I/NA  cate I/NA  RPD Limit
Analysis Batch: 125181  Analyse Total Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water Analysis Batch: 125181  Analyte Total Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water Analysis Batch: 125181  Analyse Total Suspended Solids  Lethod: SM 5210B - BOD, 5-D  Lab Sample ID: SCB 660-125204/2  Matrix: Water	Sample Result 35	1.0	Qualifier U	Added		Result 111 DU Result	LCS Qualifio	r Ui	g/L nit		D	%Rec 111 Clie	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 . 120 Prep Type Prep Type	Duplic: Total	il Fac
Analysis Batch: 125181  Analyte Total Suspended Solids  Lab Sample ID: LCS 660-125181/2  Matrix: Water Analysis Batch: 125181  Analyte Total Suspended Solids  Lab Sample ID: 660-48024-C-1 DU  Matrix: Water Analysis Batch: 125181  Analyte Total Suspended Solids  Lethod: SM 5210B - BOD, 5-D  Lab Sample ID: SCB 660-125204/2  Matrix: Water	Sample Result 35	Sam Qua	Qualifier U	Added		Result 111 DU Result	LCS Qualifio	r Ui	g/L nit		D	%Rec 111 Clie	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 - 120 Prep Type  Rec. Prep Type	Duplic: Total	il Fac  1 nple I/NA  cate I/NA  RPD Limit 20
Matrix: Water Analysis Batch: 125181  Analysis Total Suspended Solids  Lab Sample ID: LCS 660-125181/2 Matrix: Water Analysis Batch: 125181  Analysis Batch: 125181  Analysis Sample ID: 660-48024-C-1 DU Matrix: Water Analysis Batch: 125181  Analysis Batch: 125181  Analysis Batch: 125181  Analysis Batch: 125181  Analysis Batch: 125204/2  Matrix: Water Analysis Batch: 125204  Analysis Batch: 125204  Analysis Batch: 125204	Sample Result 35 ay SCB	Sam Qual	Qualifier U	Added		Result 111 DU Result	LCS Qualifio	VL r Ui	g/L nit		D	%Rec 111 Clie	Analyzed 06/06/12 06:03 PID: Lab Contr Prep Type %Rec. Limits 80 - 120 Prep Type  Rec. Prep Type	Duplic: Total	il Fac  1 nple I/NA  cate I/NA  RPD Limit 20



### **QC Sample Results**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Client Sample ID: Duplicate

Prep Type: Total/NA

Method: SM 5210B - BOD, 5-Da	y (Contin	ued)							
Lab Sample ID: USB 660-125204/1 L Matrix: Water	ISB						Client S	ample ID: Metho	
								Prep Type: 1	otal/NA
Analysis Batch: 125204		1100							
	USB	028							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Biochemical Oxygen Demand	2.0	U	2.0	2.0	mg/L			06/06/12 10:40	1
Lab Sample ID: LCS 660-125204/3						CI	ient Sample	ID: Lab Control	Sample
Matrix: Water							•	Prep Type: 1	•
Analysis Ratch: 125204									

Analysis Batch: 125204



Lab Sample ID: 660-48036-A-1 DU

Matrix: Water

Analysis Batch: 125204

1		Sample	Sample	DU	DU				RPD
i	Analyte	Result	Qualifier	 Result	Qualifier	Unit	D	RPD	Limit
l	Biochemical Oxygen Demand	24	U	 24	Ū	mg/L		 NC	20



# **QC Association Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Analysis Batch: 93306         Lab Sample ID         Prep Type         Matrix         Method         Prep Batch           650-40020-1         Caschalde Efficient         Total/NA         Wider         Nitrate by calc           650-40020-1         Caschalde Efficient         Total/NA         Wider         Nitrate by calc           450-40020-1         Caschalde Efficient         Total/NA         Wider         Nitrate by calc           450-40020-1         Callont Sample ID         Prep Type         Matrix         Method         Prep Batch           650-40020-1         Lechalde Efficient         Total/NA         Wider         Ski 2540D         Wid	General Chemistry					
### ### ### #### #### ################	Analysis Batch: 93306					
690-4020-1	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Analysis Batch: 125181   Lab Sample ID	660-48028-1	Leachate Effluent		Water	Nitrate by calc	
Lab Sample ID	660-48028-2	Equipment Blank 48028	Total/NA	Water	Nitrate by calc	
660-48028-C-1 DU	Analysis Batch: 125181					
660-48022-1   Lechute Effluent	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
## # ## ## ## ## ## ## ## ## ## ## ##	660-48024-C-1 DU	Duplicate	<del></del>	· · · · · · · · · · · · · · · · · · ·		
	660-48028-1	Leachate Effluent	Tctal/NA	Water	SM 2540D	
Method Blank	660-48028-2	Equipment Blank 48028	Total/NA	Water	SM 2540D	
Analysis Batch: 125204  Lab Sample ID Client Sample ID Prep Typo Matrix Method Prep Batch 660-48028-1 Leachate Effluent Total/NA Water SM 52108  660-48028-2 Equipment Blank 48028 Total/NA Water SM 52108  660-48028-2 Equipment Blank 48028 Total/NA Water SM 52108  660-48028-1 LD Updicate Total/NA Water SM 52108  LCS 660-125204/2 LBb Control Sample Total/NA Water SM 52108  LCS 660-125204/2 LBB Method Blank Total/NA Water SM 52108  LBB 660-125204/1 LBB Method Blank Total/NA Water SM 52108  LBB 660-125204/1 LBB Method Blank Total/NA Water SM 52108  LBB 660-125204/1 LBB Method Blank Total/NA Water SM 52108  LBB 660-125204/1 LBB Method Blank Total/NA Water SM 5220  LBB 660-48028-1 MS Leachate Effluent Total/NA Water SM 5220  660-48028-1 MS Leachate Effluent Total/NA Water SM 5220  CCS 660-1252249-A LB Control Sample ID Total/NA Water SM 5220  MB 660-1252249-A Method Blank Total/NA Water SM 5220  MB 660-1252249-A Method Blank Total/NA Water SM 5220  Analysis Batch: 125234  LBB Sample ID Client Sample ID Prep Typo Matrix Method Blank Total/NA Water SM 5220  Analysis Batch: 126234  LBB Sample ID Client Sample ID Prep Typo Matrix Method Prep Batch 660-48028-1 MS Leachate Effluent Total/NA Water S220 D 125228  660-48028-1 MS Leachate Effluent Total/NA Water S220 D 125228  660-48028-1 MS Leachate Effluent Total/NA Water S220 D 125228  660-48028-1 MS Leachate Effluent Total/NA Water S220 D 125228  660-48028-1 MS Leachate Effluent Total/NA Water S220 D 125228  MB 660-125228-A LB Control Sample ID Prep Typo Matrix Method Prep Batch 660-48028-1 Leachate Effluent Total/NA Water S220 D 125228  MB 660-125228-A LB Control Sample Total/NA Water S220 D 125228  MB 660-125228-A LB Control Sample ID Prep Typo Matrix Method Prep Batch 660-48028-1 Leachate Effluent Total/NA Water SM 2540C  LB Sample ID Client Sample ID Prep Typo Matrix Method Prep Batch 660-48028-1 Leachate Effluent Total/NA Water SM 2540C  LB Sample ID Client Sample ID Prep Typo Matrix Spide Client Sample Total/NA Water SM 2540C  LB Sample ID Client Sample ID Prep Typo M	LCS 660-125181/2	Lab Control Sample	Total/NA	Water	SM 2540D	
Lab Sample ID	MB 660-125181/1	Method Blank	Total/NA	Water	SM 2540D	
	Analysis Batch: 125204					
	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Pren Batch
650-48028-2         Equipment Blank 48028         Total/NA         Water         SM 52108           660-48039-A-1 DU         Dupticate         Total/NA         Water         SM 52108           LCS 660-125204/3         Lab Control Sample         Total/NA         Water         SM 52108           SCB 660-125204/2 SCB         Method Blank         Total/NA         Water         SM 5210B           LSB 660-125204/1 USB         Method Blank         Total/NA         Water         SM 5210B           Lab Sample ID         Prep Patch         Matrix         Method         Prep Batch           660-48028-1         Leachate Effluent         Total/NA         Water         SM 5220           660-48028-1 MSD         Leachate Effluent         Total/NA         Water         SM 5220           LCS 660-125228/4-A         Lab Control Sample         Total/NA         Water         SM 5220           MB 660-125228/4-A         Method Blank         Total/NA         Water         SM 5220           Analysis Batch: 125234         Lub Sample ID         Prep Typo         Matrix         Method         Prep Batch           660-48028-1 MS         Leachate Effluent         Total/NA         Water         5220 D         125228           660-48028-1 Total/NA <td>·</td> <td><del></del></td> <td></td> <td></td> <td></td> <td> p Daitil</td>	·	<del></del>				p Daitil
S60-48036-A-1 DU	•					
LCS 660-125204/3   Lab Control Sample	660-48036-A-1 DU	Duplicate		Water		
SCB 660-125204/2 SCB   Method Blank	LCS 660-125204/3	Lab Control Sample	Total/NA	Water		
USB 660-125224/1 USB	SCB 660-125204/2 SCB	·	Total/NA	Water	SM 5210B	
Lab Sample ID	USB 660-125204/1 USB	Method Blank	Total/NA	Water		
680-48028-1   Leachate Effluent	Prep Batch: 125228					
680-48028-1   Leachate Effluent	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G60-48028-1 MSD	660-48028-1	Leachate Effluent		Water	SM 5220	
LCS 660-125228/5-A	660-48028-1 MS	Leachate Effluent	Total/NA	Water	SM 5220	
MB 660-125228/4-A Method Blank Total/NA Water SM 5220  Analysis Batch: 125234  Lab Sample ID Client Sample ID Prop Typo Matrix Method Prop Batch 660-48028-1 Leachate Effluent Total/NA Water 5220 D 125228 660-48028-1 MS Leachate Effluent Total/NA Water 5220 D 125228 660-48028-1 MSD Leachate Effluent Total/NA Water 5220 D 125228 LCS 660-12528/5-A Lab Control Sample Total/NA Water 5220 D 125228 LCS 660-12528/5-A Lab Control Sample Total/NA Water 5220 D 125228 MB 660-12528/5-A Lab Control Sample Total/NA Water 5220 D 125228 Lab Sample ID Client Sample ID Prop Typo Matrix Method Prop Batch 640-38915-A-1 DU Duplicate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125420/5-A Lab Sample ID Prop Typo Matrix Mothod Prop Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2520 M60-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 M60-48101-H-1-B MS Matrix Spike Duplicate Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 520	660-48028-1 MSD	Leachate Effluent	Total/NA	Water	SM 5220	
Analysis Batch: 125234  Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 660-48028-1 Leachate Effluent Total/NA Water 5220 D 125228 660-48028-1 MS Leachate Effluent Total/NA Water 5220 D 125228 660-48028-1 MSD Leachate Effluent Total/NA Water 5220 D 125228 660-48028-1 MSD Leachate Effluent Total/NA Water 5220 D 125228 LCS 660-125228/5-A Lab Control Sample Total/NA Water 5220 D 125228 MB 660-125228/5-A Lab Control Sample Total/NA Water 5220 D 125228 MB 660-125228/5-A Method Blank Total/NA Water 5220 D 125228 MB 660-12528/5-A Method Blank Total/NA Water 5220 D 125228 MB 660-12528/5-A Method Blank Total/NA Water 5220 D 125228 MB 660-12528/5-A DD Dupticate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C MB 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2520 Method Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	LCS 660-125228/5-A	Lab Control Sample	Tctal/NA	Water	SM 5220	
Lab Sample ID         Cilent Sample ID         Prep Type         Matrix         Method         Prep Batch           660-48028-1         Leachate Effluent         Total/NA         Water         5220 D         125228           660-48028-1 MS         Leachate Effluent         Total/NA         Water         5220 D         125228           660-48028-1 MSD         Leachate Effluent         Total/NA         Water         5220 D         125228           LCS 660-125228/4-A         Lab Control Sample         Total/NA         Water         5220 D         125228           MB 660-125228/4-A         Method Blank         Total/NA         Water         5220 D         125228           Analysis Batch: 125382         Lab Sample ID         Cliont Sample ID         Prep Typo         Matrix         Method         Prep Batch           660-48028-1         Leachate Effluent         Total/NA         Water         SM 2540C         SM 2540C           660-48028-2         Equipment Blank 48028         Total/NA         Water         SM 2540C           LCS 660-125382/2         Lab Control Sample         Total/NA         Water         SM 2540C           MB 660-125382/1         Method Blank         Total/NA         Water         SM 2540C           LoS Sample ID	MB 660-125228/4-A	Method Blank	Total/NA	Water	SM 5220	
E60-48028-1	Analysis Batch: 125234					
Eachate Effluent	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	660-48028-1	Leachate Effluent		Water	5220 D	
LCS 660-125228/5-A	660-48028-1 MS	Leachate Effluent	Total/NA	Water	5220 D	125228
MB 660-125228/4-A         Method Blank         Total/NA         Water         5220 D         125228           Analysis Batch: 125382         Lab Sample ID         Prep Type         Matrix         Method         Prep Batch           640-38915-A-1 DU         Duplicate         Total/NA         Water         SM 2540C           660-48028-1         Leachate Effluent         Total/NA         Water         SM 2540C           LCS 660-125382/2         Lab Control Sample         Total/NA         Water         SM 2540C           Prep Batch: 125420         Lab Sample ID         Prep Type         Matrix         Mothod         Prep Batch           660-48028-2         Equipment Blank 48028         Total/NA         Water         SM 5220           660-48101-H-1-B MS         Matrix Spike         Total/NA         Water         SM 5220           660-48101-H-1-C MSD         Matrix Spike Duplicate         Total/NA         Water         SM 5220           LCS 660-125420/5-A         Lab Control Sample	660-48028-1 MSD	Leachate Effluent	Total/NA	Water	5220 D	125228
Analysis Batch: 125382  Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 640-38915-A-1 DU Duplicate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Typo Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	LCS 660-125228/5-A	Lab Control Sample	Total/NA	Water	5220 D	
Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 640-38915-A-1 DU Duplicate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Type Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample	MB 660-125228/4-A	Method Blank	Total/NA	Water	5220 D	125228
640-38915-A-1 DU Duplicate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Type Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	Analysis Batch: 125382					
640-38915-A-1 DU Duplicate Total/NA Water SM 2540C 660-48028-1 Leachate Effluent Total/NA Water SM 2540C 660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Typo Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48028-2 Equipment Blank 48028 Total/NA Water SM 2540C LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Typo Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	640-38915-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
LCS 660-125382/2 Lab Control Sample Total/NA Water SM 2540C MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prop Typo Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	660-48028-1	Leachate Effluent	Total/NA	Water	SM 2540C	
MB 660-125382/1 Method Blank Total/NA Water SM 2540C  Prep Batch: 125420  Lab Sample ID Client Sample ID Prep Type Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	660-48028-2	Equipment Blank 48028	Total/NA	Water	SM 2540C	
Prep Batch: 125420           Lab Sample ID         Prop Type         Matrix         Mothod         Prep Batch           660-48028-2         Equipment Blank 48028         Total/NA         Water         SM 5220           660-48101-H-1-B MS         Matrix Spike         Total/NA         Water         SM 5220           660-48101-H-1-C MSD         Matrix Spike Duplicate         Total/NA         Water         SM 5220           LCS 660-125420/5-A         Lab Control Sample         Total/NA         Water         SM 5220	LCS 660-125382/2	Lab Control Sample	Total/NA	Water	SM 2540C	
Lab Sample ID Client Sample ID Prop Type Matrix Mothod Prep Batch 660-48028-2 Equipment Blank 48028 Total/NA Water SM 5220 660-48101-H-1-B MS Matrix Spike Total/NA Water SM 5220 660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	MB 660-125382/1	Method Blank	Total/NA	Water	SM 2540C	
660-48028-2         Equipment Blank 48028         Total/NA         Water         SM 5220           660-48101-H-1-B MS         Matrix Spike         Total/NA         Water         SM 5220           660-48101-H-1-C MSD         Matrix Spike Duplicate         Total/NA         Water         SM 5220           LCS 660-125420/5-A         Lab Control Sample         Total/NA         Water         SM 5220	Prep Batch: 125420					
660-48028-2         Equipment Blank 48028         Total/NA         Water         SM 5220           660-48101-H-1-B MS         Matrix Spike         Total/NA         Water         SM 5220           660-48101-H-1-C MSD         Matrix Spike Duplicate         Total/NA         Water         SM 5220           LCS 660-125420/5-A         Lab Control Sample         Total/NA         Water         SM 5220	Lab Sample ID	Client Sample ID	Ргор Туро	Matrix	Mothod	Prep Batch
660-48101-H-1-C MSD Matrix Spike Duplicate Total/NA Water SM 5220 LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	660-48028-2	Equipment Blank 48028	Total/NA			
LCS 660-125420/5-A Lab Control Sample Total/NA Water SM 5220	660-48101-H-1-B MS	Matrix Spike	Total/NA	Water	SM 5220	
	660-48101-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5220	
MB 660-125420/4-A Method Blank Total/NA Water SM 5220	LCS 660-125420/5-A	Lab Control Sample	Total/NA	Water	SM 5220	
	MB 660-125420/4-A	Method Blank	Total/NA	Water	SM 5220	

# **QC Association Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

General Chemistry	(Continued)				
Analysis Batch: 125421					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48028-2	Equipment Blank 48028	Total/NA	Water	5220 D	125420
660-48101-H-1-B MS	Matrix Spike	Total/NA	Water	5220 D	125420
660-48101-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	5220 D	125420
LCS 660-125420/5-A	Lab Control Sample	Total/NA	Water	5220 D	125420
MB 660-125420/4-A	Method Blank	Total/NA	Water	5220 D	125420
ield Service / Mob	ile Lab				
Analysis Batch: 125197	•				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48028-1	Leachate Effluent	Total/NA	Water	Field Sampling	

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

Client Sample ID: Leachate Effluent

Date Collected: 06/05/12 12:40 Date Received: 06/05/12 14:30 Lab Sample ID: 660-48028-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туро	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1	93306	06/11/12 18:07	TBW	TAL TAL
Total/NA	Analysis	SM 2540D		1	125181	06/06/12 06:03	TO	TAL TAM
Total/NA	Analysis	SM 5210B		1	125204	06/06/12 10:40	AG	TAL TAM
Total/NA	Prep	SM 5220			125228	06/06/12 12:00	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	125234	06/06/12 16:30	RWF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125382	06/11/12 14:53	то	TAL TAM
Total/NA	Analysis	Field Sampling		1	125197	06/05/12 12:40		TAL TAM

Client Sample ID: Equipment Blank 48028

Date Collected: 06/05/12 12:30

Date Received: 06/05/12 14:30

Lab Sample ID: 660-48028-2

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc	·	1	93306	06/11/12 18:15	TBW	TAL TAL
Total/NA	Analysis	SM 2540D		1	125181	06/06/12 06:03	то	TAL TAM
Total/NA	Analysis	SM 5210B		1	125204	06/06/12 10:40	AG	TAL TAM
Tctal/NA	Analysis	SM 2540C		1	125382	06/11/12 14:55	то	TAL TAM
Total/NA	Prep	SM 5220			125420	06/12/12 11:13	RWF	TAL TAM
Total/NA	Analysis	5220 D		1	125421	06/12/12 13:39	RWF	TAL TAM

#### Laboratory References:

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

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

## **Certification Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177
TestAmerica Tallahassee	Florida	NELAC	4	E81005
TestAmerica Tallahassee	Louisiana	NELAC	6	30663
TestAmerica Tallahassee	New Jersey	NELAC	2	FL012
TestAmerica Tallahassee	Oklahoma	State Program	6	9986
TestAmerica Tallahassee	Texas	NELAC	6	T104704459-11-2
TestAmerica Tallahassee	USDA	Federal		P330-08-00158

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



### **Method Summary**

Client: Hillsborough County Public Utilities Dep

Project/Site: Leachate Effluent

TestAmerica Job ID: 660-48028-1

Method	Method Description	Protocol	Laboratory	
5220 D	Chemical Oxygen Demand	SM20	TAL TAM	_
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL TAL	
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM	ï
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM	
SM 5210B	BOD, 5-Day	SM	TAL TAM	_
Field Sampling	Field Sampling	EPA	TAL TAM	

#### Protocol References:

EPA = US Environmental Protection Agency

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

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition,"

#### **Laboratory References:**

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
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: 660-48028-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48028-1	Leachate Effluent	Water	06/05/12 12:40	06/05/12 14:30
660-48028-2	Equipment Blank 48028	Water	06/05/12 12:30	06/05/12 14:30



# 660-48028

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

	=		HATEL TIMESTAT	
PREC	CLEANED SAMPLE CONTAINERS: INQUISHED BY:			DATE   TIME
RELI	INQUISHED BY:		REP. OF CONTRACT LAB.	
ACCE	EPTED BY:		REP. OF SOLID WASTE DEPT	, 6 4 13 1 44 10 11
		***	. The or occurs who to built	6.7.12 1 A.U.
LOCA	TION: LEACHATE EFFLUENT		SAMPLE MATRIX: WATER OT	HER MATRIX:
PERS	SONAL ENGAGED IN SAMPLE COL	LECTI	ON: DA.Balloon D ( al. 4	
			- Ficialis	<del></del>
	r.	תופדי	PARAMETERS:	
	<u>-</u>	THIDD	CHARLETERS:	
	777   677477   677477			
	BY TIME TEM		COND   PH   DO	TURB
	AB JC   81:5   31.5	<u> 7                                     </u>	10389 8.00 5.18	N/A =
	12:40			· · · · · · · · · · · · · · · · · · ·
	. 2. 10			
		SAMPLI	E CONTAINERS	
QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC	<b></b>	125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	<del></del>
1	250 ml. PLASTIC	7	250 ml. PLASTIC	
	250 ml. GLASS	<del></del>	250 ml. GLASS	
	500 ml. PLASTIC	<del>                                     </del>	500 ml. PLASTIC	· · · · · · · · · · · · · · · · · · ·
	500 ml. GLASS	<del> </del>	500 ml. GLASS	
3	LITER PLASTIC	<del> </del>	LITER PLASTIC	<del>  </del>
	LITER GLASS	<del> </del>	LITER GLASS	<del> </del>
	BACTERIAL	<del> </del>	BACTERIAL	
	Det of Division	Ь	BACTERIAL	
<u>ک</u>	TOTAL No. OF SAMPLES C	OLLEC	TED:	
0010	DG c Gupping upg			
COTO	RS & SHEENS: YESN/A		NO	
				DATE   TIME
				G.S.12 12:40
		ANALYS	IS REQUESTED:	32130.12.12.12
MONTH	ILY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	n.
				=
PRES	ERVED SAMPLES PH < 2.0		SAMPLE STORAGE: COOLER	& ICE TO 4.0 c
A DOU	E LICHED CAMPING.			
	E LISTED SAMPLES:		REP. OF SOLID WASTE DEPT	DATE   TIME
	NQUISHED BY: Light		REP. OF SOLID WASTE DEPT	. 4.5.12   2:30
ACCE	PTED BY: ('ALAD NE'N M	lti_	REP. OF CONTRACT LAB.	6.5.12 2:30
			•	
COMM	ENT'S: WOR OOGL			-
	- Cope over			

3.3°C 0007

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

PREC	CLEANED SAMPLE CONTAINERS: CNQUISHED BY: Clogate Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristics Characteristi			DATE   TIME
RELI	NQUISHED BY:		REP. OF CONTRACT LAB.	
ACCE	PTED BY:		REP. OF SOLID WASTE DEPT	6.4.12 4:00
LOCA	TION: <u>EQUIPMENT BLANK</u> CONAL ENGAGED IN SAMPLE COI		SAMPLE MATRIX: WATER OT	HER MATRIX:
PERS	ONAL ENGAGED IN SAMPLE COI	LECTI	ON: WA.Balloon WA. Clata	
			3	
	FIE	LD PA	RAMETERS: N/A	
			· · · · · · · · · · · · · · · · · · ·	
<del></del>		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	1	250 ml. PLASTIC	
	250 ml. GLASS	ļ	250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS	1	500 ml. GLASS	
_9_	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS	<del> </del>	LITER GLASS	
	BACTERIAL		BACTERIAL	
_ <u>~</u>	TOTAL No. OF SAMPLES O			GOL Y HOMBD
COPC	ORS & SHEENS: YES N/A		NO	COPTECLED
			- · · · · · · · · · · · · · · · · · · ·	DATE   TIME
			TA DRAW GENERAL	6.5.12 12:30
		ANALYS	IS REQUESTED:	
HONTI	ILY LEACHATE PLANT PARAMETERS	BOD	TSS NITRATE TDS CO	<u>D</u>
PRES	SERVED SAMPLES PH < 2.0		SAMPLE STORAGE: COOLER	& ICE TO 4.0 c
Z DOM	E LISTED SAMPLES:			DATE   TIME
DELL	MONTGUED BY. 1 . At. 75		DED OF COLLD MYCHE DEDU	( < 12   O18
VCCE	NQUISHED BY: 1: Clats PTED BY: 4	. \(\alpha_1\)A.	DED OF COMMUNICATION	( 5.5/2   2.36
ACCE	LIED BI:	cruveti	REF. OF CONTRACT LAB.	6.0.10 6.30
		'	-	
COMM	IENT'S: WO # OOG			
COUR	S. WUN OVE		·····	

#### **Login Sample Receipt Checklist**

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48028-1

Login Number: 48028

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.3 deg C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



#### Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Login Number: 48028 List Source: TestAmerica Tallahassee List Number: 1 List Creation: 06/07/12 03:52 PM

Creator: Wallace, Tiffany B

Question Answer Comment

Radioactivity either was not measured or, if measured, is at or below

background

The cooler's custody seal, if present, is intact.

The cooler or samples do not appear to have been compromised or

tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the sample IDs on the containers and

the COC.

Samples are received within Holding Time.

Sample containers have legible tabels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested

MS/MSDs

VOA sample vials do not have headspace or bubble is <6mm (1/4") in

diameter.

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.



Job Number: 660-48028-1