

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-135093-1

Client Project/Site: Cake/SDP March 2017

For:

Emerald Coast Utilities Authority

9255 Sturdevant Street

Pensacola, Florida 32514

Attn: Brandy Bowers



Authorized for release by:

3/23/2017 4:32:58 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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

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Case Narrative

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Job ID: 400-135093-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-135093-1

Metals

Method(s) 6010B: The method blank for preparation batch 345765 and analytical batch 346314 contained Potassium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The matrix spike (MS) recoveries for preparation batch 345765 and analytical batch 346314 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471A: The following samples were diluted to bring the concentration of target analytes within the calibration range: CAKE (400-135093-1) and SDP (400-135093-2). Elevated reporting limits (RLs) are provided.



Method Summary

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL PEN
7471A	Mercury (CVAA)	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Sample Summary

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135093-1	CAKE	Solid	03/13/17 06:00	03/13/17 13:10
400-135093-2	SDP	Solid	03/13/17 00:00	03/13/17 13:10

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- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13

Client Sample Results

Client: Emerald Coast Utilities Authority
 Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Client Sample ID: CAKE
Date Collected: 03/13/17 06:00
Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-1
Matrix: Solid
Percent Solids: 19.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		2.5	2.0	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Cadmium	0.94	I	2.5	0.49	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Copper	230		4.9	0.98	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Lead	11		2.5	0.98	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Molybdenum	6.4		4.9	0.98	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Nickel	9.7		2.5	1.5	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Potassium	2600		490	49	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Selenium	3.5	I	4.9	2.0	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1
Zinc	590		9.8	3.9	mg/Kg	☼	03/17/17 11:30	03/18/17 17:42	1

Method: 7471A - Mercury (CVAA) - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.41	0.25	mg/Kg	☼	03/14/17 09:13	03/15/17 13:03	2

Client Sample ID: SDP
Date Collected: 03/13/17 00:00
Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-2
Matrix: Solid
Percent Solids: 98.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		0.47	0.38	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Cadmium	0.98		0.47	0.094	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Copper	270		0.94	0.19	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Lead	13		0.47	0.19	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Molybdenum	7.3		0.94	0.19	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Nickel	13		0.47	0.28	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Potassium	3200		94	9.4	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Selenium	4.5		0.94	0.38	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1
Zinc	670		1.9	0.75	mg/Kg	☼	03/17/17 11:30	03/18/17 17:45	1

Method: 7471A - Mercury (CVAA) - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.56		0.069	0.042	mg/Kg	☼	03/14/17 09:13	03/15/17 13:05	2

Definitions/Glossary

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Client Sample ID: CAKE

Date Collected: 03/13/17 06:00

Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	346389	03/20/17 11:20	DAS	TAL PEN

Client Sample ID: CAKE

Date Collected: 03/13/17 06:00

Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-1

Matrix: Solid

Percent Solids: 19.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			345765	03/17/17 11:30	DN1	TAL PEN
Total/NA	Analysis	6010B		1	346314	03/18/17 17:42	SEH	TAL PEN
Total/NA	Prep	7471A	DL		345625	03/14/17 09:13	JAP	TAL PEN
Total/NA	Analysis	7471A	DL	2	345860	03/15/17 13:03	JAP	TAL PEN

Client Sample ID: SDP

Date Collected: 03/13/17 00:00

Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	346389	03/20/17 11:20	DAS	TAL PEN

Client Sample ID: SDP

Date Collected: 03/13/17 00:00

Date Received: 03/13/17 13:10

Lab Sample ID: 400-135093-2

Matrix: Solid

Percent Solids: 98.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			345765	03/17/17 11:30	DN1	TAL PEN
Total/NA	Analysis	6010B		1	346314	03/18/17 17:45	SEH	TAL PEN
Total/NA	Prep	7471A	DL		345625	03/14/17 09:13	JAP	TAL PEN
Total/NA	Analysis	7471A	DL	2	345860	03/15/17 13:05	JAP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Metals

Prep Batch: 345625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135093-1 - DL	CAKE	Total/NA	Solid	7471A	
400-135093-2 - DL	SDP	Total/NA	Solid	7471A	
MB 400-345625/14-A	Method Blank	Total/NA	Solid	7471A	
LCS 400-345625/15-A	Lab Control Sample	Total/NA	Solid	7471A	
400-135071-A-6-B MS	Matrix Spike	Total/NA	Solid	7471A	
400-135071-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 345765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135093-1	CAKE	Total/NA	Solid	3050B	
400-135093-2	SDP	Total/NA	Solid	3050B	
MB 400-345765/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 400-345765/2-A	Lab Control Sample	Total/NA	Solid	3050B	
400-133892-A-1-C MS	Matrix Spike	Total/NA	Solid	3050B	
400-133892-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 345860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135093-1 - DL	CAKE	Total/NA	Solid	7471A	345625
400-135093-2 - DL	SDP	Total/NA	Solid	7471A	345625
MB 400-345625/14-A	Method Blank	Total/NA	Solid	7471A	345625
LCS 400-345625/15-A	Lab Control Sample	Total/NA	Solid	7471A	345625
400-135071-A-6-B MS	Matrix Spike	Total/NA	Solid	7471A	345625
400-135071-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	345625

Analysis Batch: 346314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135093-1	CAKE	Total/NA	Solid	6010B	345765
400-135093-2	SDP	Total/NA	Solid	6010B	345765
MB 400-345765/1-A	Method Blank	Total/NA	Solid	6010B	345765
LCS 400-345765/2-A	Lab Control Sample	Total/NA	Solid	6010B	345765
400-133892-A-1-C MS	Matrix Spike	Total/NA	Solid	6010B	345765
400-133892-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	345765

General Chemistry

Analysis Batch: 346389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135093-1	CAKE	Total/NA	Solid	Moisture	
400-135093-2	SDP	Total/NA	Solid	Moisture	
400-135150-F-42 MS	Matrix Spike	Total/NA	Solid	Moisture	
400-135150-F-42 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
400-135150-F-42 DU	Duplicate	Total/NA	Solid	Moisture	

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QC Sample Results

Client: Emerald Coast Utilities Authority
Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-345765/1-A
Matrix: Solid
Analysis Batch: 346314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345765

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.40	U	0.51	0.40	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Cadmium	0.10	U	0.51	0.10	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Copper	0.20	U	1.0	0.20	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Lead	0.20	U	0.51	0.20	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Molybdenum	0.20	U	1.0	0.20	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Nickel	0.30	U	0.51	0.30	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Potassium	18.2	I	100	10	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Selenium	0.40	U	1.0	0.40	mg/Kg		03/17/17 11:30	03/18/17 17:03	1
Zinc	0.81	U	2.0	0.81	mg/Kg		03/17/17 11:30	03/18/17 17:03	1

Lab Sample ID: LCS 400-345765/2-A
Matrix: Solid
Analysis Batch: 346314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	101	103		mg/Kg		102	80 - 120
Cadmium	50.5	50.9		mg/Kg		101	80 - 120
Copper	101	108		mg/Kg		107	80 - 120
Lead	101	98.3		mg/Kg		97	80 - 120
Molybdenum	101	112		mg/Kg		110	80 - 120
Nickel	101	100		mg/Kg		99	80 - 120
Potassium	1010	1120		mg/Kg		111	80 - 120
Selenium	101	100		mg/Kg		99	80 - 120
Zinc	101	104		mg/Kg		103	80 - 120

Lab Sample ID: 400-133892-A-1-C MS
Matrix: Solid
Analysis Batch: 346314

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 345765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	71		92.8	166		mg/Kg		102	75 - 125
Cadmium	0.093	U	46.4	45.2		mg/Kg		98	75 - 125
Copper	41		92.8	159	J3	mg/Kg		127	75 - 125
Lead	0.56		92.8	89.3		mg/Kg		96	75 - 125
Molybdenum	1.6		92.8	88.8		mg/Kg		94	75 - 125
Nickel	38		92.8	135		mg/Kg		104	75 - 125
Potassium	640		928	1650		mg/Kg		109	75 - 125
Selenium	6.8		92.8	99.1		mg/Kg		100	75 - 125
Zinc	29		92.8	119		mg/Kg		98	75 - 125

Lab Sample ID: 400-133892-A-1-D MSD
Matrix: Solid
Analysis Batch: 346314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 345765

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	71		93.1	161		mg/Kg		96	75 - 125	3	20
Cadmium	0.093	U	46.6	44.9		mg/Kg		96	75 - 125	1	20
Copper	41		93.1	133		mg/Kg		98	75 - 125	18	20
Lead	0.56		93.1	88.7		mg/Kg		95	75 - 125	1	20

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QC Sample Results

Client: Emerald Coast Utilities Authority
 Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

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

Lab Sample ID: 400-133892-A-1-D MSD
Matrix: Solid
Analysis Batch: 346314

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 345765

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Molybdenum	1.6		93.1	89.4		mg/Kg		94	75 - 125	1	20
Nickel	38		93.1	133		mg/Kg		101	75 - 125	1	20
Potassium	640		931	1640		mg/Kg		108	75 - 125	1	20
Selenium	6.8		93.1	98.7		mg/Kg		99	75 - 125	0	20
Zinc	29		93.1	118		mg/Kg		96	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 400-345625/14-A
Matrix: Solid
Analysis Batch: 345860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345625

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0078	U	0.013	0.0078	mg/Kg		03/14/17 08:57	03/15/17 12:53	1

Lab Sample ID: LCS 400-345625/15-A
Matrix: Solid
Analysis Batch: 345860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345625

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.0634	0.0587		mg/Kg		93	80 - 120

Lab Sample ID: 400-135071-A-6-B MS
Matrix: Solid
Analysis Batch: 345860

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 345625

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits	
Mercury	0.0096	U	0.165	0.140		mg/Kg	☼	85	80 - 120	

Lab Sample ID: 400-135071-A-6-C MSD
Matrix: Solid
Analysis Batch: 345860

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 345625

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0096	U	0.166	0.178	J3	mg/Kg	☼	107	80 - 120	24	20

Login Sample Receipt Checklist

Client: Emerald Coast Utilities Authority

Job Number: 400-135093-1

Login Number: 135093

List Number: 1

Creator: Franklin, Justin H

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Emerald Coast Utilities Authority
 Project/Site: Cake/SDP March 2017

TestAmerica Job ID: 400-135093-1

Laboratory: TestAmerica Pensacola

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17