

ANALYTICAL REPORT

Job Number: 460-43833-1

Job Description: 17338-TO4-2012, RACER, GM Wilmington

For:
Conestoga-Rovers & Associates, Inc.
2055 Niagara Falls Blvd., Suite 3
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Attention: Ms. Sue Scrocchi



Approved for release.
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11/13/2012

cc: Chris Barton

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CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 17338-TO4-2012, GM Wilmington

Report Number: 460-43833-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 08/23/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS

Sample 460-43833-6 was analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 11/08/2012 and analyzed on 11/10/2012.

Sample 460-43833-6(4X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

As a standard practice all soil samples and related QC samples (i.e., MB, LCS, Dup, MS, SD) are diluted 2X-4X prior to analysis. Further dilutions may be required dependent upon analyte levels in the samples. Refer to the analytical results forms for dilutions.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples 460-43833-1 through 460-43833-6 were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D). The samples were analyzed on 08/24/2012.

No difficulties were encountered during the %solids/moisture analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
460-43833-1	SO-17338-082212-mm-203	Solid	08/22/2012 1000	08/23/2012 1905
460-43833-2	SO-17338-082212-mm-204	Solid	08/22/2012 1050	08/23/2012 1905
460-43833-3	SO-17338-082212-mm-205	Solid	08/22/2012 1130	08/23/2012 1905
460-43833-4	SO-17338-082212-mm-206	Solid	08/22/2012 1245	08/23/2012 1905
460-43833-5	SO-17338-082212-mm-207	Solid	08/22/2012 1405	08/23/2012 1905
460-43833-6	SO-17338-082212-mm-208	Solid	08/22/2012 1420	08/23/2012 1905

EXECUTIVE SUMMARY - Detections

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
460-43833-1	SO-17338-082212-MM-203					
Percent Moisture		7.8		1.0	%	Moisture
Percent Solids		92.2		1.0	%	Moisture
460-43833-2	SO-17338-082212-MM-204					
Percent Moisture		25.1		1.0	%	Moisture
Percent Solids		74.9		1.0	%	Moisture
460-43833-3	SO-17338-082212-MM-205					
Percent Moisture		13.7		1.0	%	Moisture
Percent Solids		86.3		1.0	%	Moisture
460-43833-4	SO-17338-082212-MM-206					
Percent Moisture		17.8		1.0	%	Moisture
Percent Solids		82.2		1.0	%	Moisture
460-43833-5	SO-17338-082212-MM-207					
Percent Moisture		19.5		1.0	%	Moisture
Percent Solids		80.5		1.0	%	Moisture
460-43833-6	SO-17338-082212-MM-208					
Arsenic		2.8		1.1	mg/Kg	6010B
Percent Moisture		17.8		1.0	%	Moisture
Percent Solids		82.2		1.0	%	Moisture

METHOD SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL EDI	SW846 6010B	
Preparation, Metals	TAL EDI		SW846 3050B
Percent Moisture	TAL EDI	EPA Moisture	

Lab References:

TAL EDI = TestAmerica Edison

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Method	Analyst	Analyst ID
SW846 6010B	Chang, Churn Der	CDC
EPA Moisture	Armbruster, Chris	CHA

Analytical Data

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Client Sample ID: SO-17338-082212-mm-208

Lab Sample ID: 460-43833-6

Date Sampled: 08/22/2012 1420

Client Matrix: Solid

% Moisture: 17.8

Date Received: 08/23/2012 1905

6010B Metals (ICP)

Analysis Method: 6010B

Analysis Batch: 460-135094

Instrument ID: ICP5

Prep Method: 3050B

Prep Batch: 460-134824

Lab File ID: 11102012.asc

Dilution: 4.0

Initial Weight/Volume: 1.11 g

Analysis Date: 11/10/2012 1443

Final Weight/Volume: 50 mL

Prep Date: 11/08/2012 1041

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.8		1.0	1.1

Analytical Data

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-203

Lab Sample ID: 460-43833-1

Date Sampled: 08/22/2012 1000

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	92.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-204

Lab Sample ID: 460-43833-2

Date Sampled: 08/22/2012 1050

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	25.1		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	74.9		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Analytical Data

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-205

Lab Sample ID: 460-43833-3

Date Sampled: 08/22/2012 1130

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	13.7		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	86.3		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-206

Lab Sample ID: 460-43833-4

Date Sampled: 08/22/2012 1245

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	82.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-207

Lab Sample ID: 460-43833-5

Date Sampled: 08/22/2012 1405

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	80.5		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

General Chemistry

Client Sample ID: SO-17338-082212-mm-208

Lab Sample ID: 460-43833-6

Date Sampled: 08/22/2012 1420

Client Matrix: Solid

Date Received: 08/23/2012 1905

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.8		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N
Percent Solids	82.2		%	1.0	1.0	1.0	Moisture
	Analysis Batch: 460-125462	Analysis Date: 08/24/2012 1558					DryWt Corrected: N

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Method Blank - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 460-134824/1-A ^2	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	11/10/2012 1458	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.47	U	0.47	0.50

LCS-Certified Reference Material - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	11/10/2012 1447	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	162	151.1	93.5	70.8 - 129.8	

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Matrix Spike - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	460-46704-A-13-F MS ^4	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/10/2012 1512	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.1 U	230	211.5	92	75 - 125	

Post Digestion Spike - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	460-46704-A-13-D PDS	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	11/10/2012 1516	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1.1 U	478	434.4	91	75 - 125	

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Duplicate - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	460-46704-A-13-E DU ^4	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/10/2012 1501	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	1.1	U	1.1	NC	20	U

Serial Dilution - Batch: 460-134824

Method: 6010B
Preparation: 3050B

Lab Sample ID:	460-46704-A-13-D SD	Analysis Batch:	460-135094	Instrument ID:	ICP5
Client Matrix:	Solid	Prep Batch:	460-134824	Lab File ID:	11102012.asc
Dilution:	20	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	11/10/2012 1509	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	11/08/2012 0815				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Arsenic	1.1	U	5.6	NC	10	U

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Duplicate - Batch: 460-125462

Method: Moisture Preparation: N/A

Lab Sample ID:	460-43853-A-6 DU	Analysis Batch:	460-125462	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/24/2012 1558	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	15.2	15.9	5	20	
Percent Solids	84.8	84.1	0.9	20	

DATA REPORTING QUALIFIERS

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Lab Section	Qualifier	Description
Metals	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 460-134824					
LCSSRM 460-134824/2-A ^4	LCS-Certified Reference Material	T	Solid	3050B	
MB 460-134824/1-A ^2	Method Blank	T	Solid	3050B	
460-43833-6	SO-17338-082212-mm-208	T	Solid	3050B	
460-46704-A-13-E DU ^4	Duplicate	T	Solid	3050B	
460-46704-A-13-F MS ^4	Matrix Spike	T	Solid	3050B	
Analysis Batch:460-135094					
LCSSRM 460-134824/2-A ^4	LCS-Certified Reference Material	T	Solid	6010B	460-134824
MB 460-134824/1-A ^2	Method Blank	T	Solid	6010B	460-134824
460-43833-6	SO-17338-082212-mm-208	T	Solid	6010B	460-134824
460-46704-A-13-E DU ^4	Duplicate	T	Solid	6010B	460-134824
460-46704-A-13-F MS ^4	Matrix Spike	T	Solid	6010B	460-134824

Report Basis

T = Total

General Chemistry

Analysis Batch:460-125462					
460-43833-1	SO-17338-082212-mm-203	T	Solid	Moisture	
460-43833-2	SO-17338-082212-mm-204	T	Solid	Moisture	
460-43833-3	SO-17338-082212-mm-205	T	Solid	Moisture	
460-43833-4	SO-17338-082212-mm-206	T	Solid	Moisture	
460-43833-5	SO-17338-082212-mm-207	T	Solid	Moisture	
460-43833-6	SO-17338-082212-mm-208	T	Solid	Moisture	
460-43853-A-6 DU	Duplicate	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Laboratory Chronicle

Lab ID: 460-43833-1

Client ID: SO-17338-082212-mm-203

Sample Date/Time: 08/22/2012 10:00

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-43833-A-1		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Lab ID: 460-43833-2

Client ID: SO-17338-082212-mm-204

Sample Date/Time: 08/22/2012 10:50

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-43833-A-2		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Lab ID: 460-43833-3

Client ID: SO-17338-082212-mm-205

Sample Date/Time: 08/22/2012 11:30

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-43833-A-3		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Lab ID: 460-43833-4

Client ID: SO-17338-082212-mm-206

Sample Date/Time: 08/22/2012 12:45

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-43833-A-4		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Lab ID: 460-43833-5

Client ID: SO-17338-082212-mm-207

Sample Date/Time: 08/22/2012 14:05

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	460-43833-A-5		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Lab ID: 460-43833-6

Client ID: SO-17338-082212-mm-208

Sample Date/Time: 08/22/2012 14:20

Received Date/Time: 08/23/2012 19:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	460-43833-A-6-B ^4		460-135094	460-134824	11/08/2012 10:41	4	TAL EDI	MC
A:6010B	460-43833-A-6-B ^4		460-135094	460-134824	11/10/2012 14:43	4	TAL EDI	CDC
A:Moisture	460-43833-A-6		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	MB 460-134824/1-A ^2		460-135094	460-134824	11/08/2012 08:15	2	TAL EDI	MC
A:6010B	MB 460-134824/1-A ^2		460-135094	460-134824	11/10/2012 14:58	2	TAL EDI	CDC

Lab ID: LCSSRM

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSSRM 460-134824/2-A ^4		460-135094	460-134824	11/08/2012 08:15	4	TAL EDI	MC
A:6010B	LCSSRM 460-134824/2-A ^4		460-135094	460-134824	11/10/2012 14:47	4	TAL EDI	CDC

Lab ID: MS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	460-46704-A-13-F MS ^4		460-135094	460-134824	11/08/2012 08:15	4	TAL EDI	MC
A:6010B	460-46704-A-13-F MS ^4		460-135094	460-134824	11/10/2012 15:12	4	TAL EDI	CDC

Lab ID: DU

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	460-46704-A-13-E DU ^4		460-135094	460-134824	11/08/2012 08:15	4	TAL EDI	MC
A:6010B	460-46704-A-13-E DU ^4		460-135094	460-134824	11/10/2012 15:01	4	TAL EDI	CDC
A:Moisture	460-43853-A-6 DU		460-125462		08/24/2012 15:58	1	TAL EDI	CHA

Quality Control Results

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Laboratory Chronicle

Lab ID: SD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	460-46704-A-13-D SD ^20		460-135094	460-134824	11/08/2012 08:15	20	TAL EDI	MC
A:6010B	460-46704-A-13-D SD ^20		460-135094	460-134824	11/10/2012 15:09	20	TAL EDI	CDC
P:3050B	460-46704-A-13-D PDS ^4		460-135094	460-134824	11/08/2012 08:15	4	TAL EDI	MC
A:6010B	460-46704-A-13-D PDS ^4		460-135094	460-134824	11/10/2012 15:16	4	TAL EDI	CDC

Lab References:

TAL EDI = TestAmerica Edison

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-43833-1

SDG No.: _____

Project: 17338-T04-2012, GM Wilmington

Client Sample ID
SO-17338-082212-mm-208

Lab Sample ID
460-43833-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: SO-17338-082212-mm-208

Lab Sample ID: 460-43833-6

Lab Name: TestAmerica Edison

Job No.: 460-43833-1

SDG ID.:

Matrix: Solid

Date Sampled: 08/22/2012 14:20

Reporting Basis: DRY

Date Received: 08/23/2012 19:05

% Solids: 82.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.8	1.1	1.0	mg/Kg			4	6010B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00062 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00062

Analyte	ICV 460-135094/7 11/10/2012 12:38				CCV 460-135094/31 11/10/2012 14:07				CCV 460-135094/43 11/10/2012 14:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2491		2500	100	2494		2500	100	2456		2500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00062 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00062

Analyte	CCV 460-135094/55 11/10/2012 15:34											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	2481		2500	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-135094/8 11/10/2012 12:41		CCB 460-135094/32 11/10/2012 14:10		CCB 460-135094/44 11/10/2012 14:54		CCB 460-135094/56 11/10/2012 15:38	
		Found	C	Found	C	Found	C	Found	C
Arsenic	5.0	3.7	U	3.7	U	3.7	U	3.7	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1
SDG No.: _____
Concentration Units: mg/Kg Lab Sample ID: MB 460-134824/1-A ^2
Instrument Code: ICP5 Batch No.: 135094

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.47	U		6010B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-135094/9 Instrument ID: ICP5
 Lab File ID: 11102012.asc ICS Source: ME_ICSA_Duo_00040
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		-7.14	
<i>Aluminum</i>	<i>500000</i>	<i>500100</i>	<i>100</i>
<i>Antimony</i>		<i>3.48</i>	
<i>Barium</i>		<i>-0.355</i>	
<i>Beryllium</i>		<i>-0.0587</i>	
<i>Boron</i>		<i>-1.54</i>	
<i>Cadmium</i>		<i>3.45</i>	
<i>Calcium</i>	<i>500000</i>	<i>445200</i>	<i>89</i>
<i>Chromium</i>		<i>1.80</i>	
<i>Cobalt</i>		<i>-0.637</i>	
<i>Copper</i>		<i>-2.73</i>	
<i>Iron</i>	<i>200000</i>	<i>196300</i>	<i>98</i>
<i>Lead</i>		<i>1.18</i>	
<i>Magnesium</i>	<i>500000</i>	<i>501400</i>	<i>100</i>
<i>Manganese</i>		<i>0.832</i>	
<i>Molybdenum</i>		<i>-1.43</i>	
<i>Nickel</i>		<i>-0.539</i>	
<i>Potassium</i>		<i>206</i>	
<i>Selenium</i>		<i>3.29</i>	
<i>Silver</i>		<i>-0.746</i>	
<i>Sodium</i>		<i>15.5</i>	
<i>Strontium</i>		<i>-0.0627</i>	
<i>Thallium</i>		<i>7.46</i>	
<i>Tin</i>		<i>-2.09</i>	
<i>Titanium</i>		<i>-3.12</i>	
<i>Vanadium</i>		<i>0.424</i>	
<i>Zinc</i>		<i>0.136</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-135094/10 Instrument ID: ICP5
 Lab File ID: 11102012.asc ICS Source: ME_ICSAB_DUO_00041
 Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	88.4	88
<i>Aluminum</i>	<i>500000</i>	<i>502000</i>	<i>100</i>
<i>Antimony</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Barium</i>	<i>100</i>	<i>91.2</i>	<i>91</i>
<i>Beryllium</i>	<i>100</i>	<i>94.1</i>	<i>94</i>
<i>Boron</i>	<i>100</i>	<i>88.2</i>	<i>88</i>
<i>Cadmium</i>	<i>100</i>	<i>98.7</i>	<i>99</i>
<i>Calcium</i>	<i>500000</i>	<i>443800</i>	<i>89</i>
<i>Chromium</i>	<i>100</i>	<i>95.7</i>	<i>96</i>
<i>Cobalt</i>	<i>100</i>	<i>91.9</i>	<i>92</i>
<i>Copper</i>	<i>100</i>	<i>92.0</i>	<i>92</i>
<i>Iron</i>	<i>200000</i>	<i>197900</i>	<i>99</i>
<i>Lead</i>	<i>100</i>	<i>91.7</i>	<i>92</i>
<i>Magnesium</i>	<i>500000</i>	<i>502700</i>	<i>101</i>
<i>Manganese</i>	<i>100</i>	<i>97.7</i>	<i>98</i>
<i>Molybdenum</i>	<i>100</i>	<i>91.3</i>	<i>91</i>
<i>Nickel</i>	<i>100</i>	<i>91.1</i>	<i>91</i>
<i>Potassium</i>	<i>10000</i>	<i>10380</i>	<i>104</i>
<i>Selenium</i>	<i>100</i>	<i>91.4</i>	<i>91</i>
<i>Silver</i>	<i>100</i>	<i>93.3</i>	<i>93</i>
<i>Sodium</i>	<i>10000</i>	<i>10670</i>	<i>107</i>
<i>Strontium</i>	<i>100</i>	<i>91.2</i>	<i>91</i>
<i>Thallium</i>	<i>100</i>	<i>93.4</i>	<i>93</i>
<i>Tin</i>	<i>100</i>	<i>83.8</i>	<i>84</i>
<i>Titanium</i>	<i>100</i>	<i>93.4</i>	<i>93</i>
<i>Vanadium</i>	<i>100</i>	<i>94.2</i>	<i>94</i>
<i>Zinc</i>	<i>100</i>	<i>93.3</i>	<i>93</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 460-46704-A-13-F MS ^4
Lab Name: TestAmerica Edison Job No.: 460-43833-1
SDG No.: _____
Matrix: Solid Concentration Units: mg/Kg
% Solids: 82.9

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	211.5	1.1 U	230	92	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 460-46704-A-13-D PDS ^4
Lab Name: TestAmerica Edison Job No.: 460-43833-1
SDG No.: _____
Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	434.4	1.1 U	478	91	75-125		6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

6-IN
DUPLICATES
METALS

Client ID: _____ Lab ID: 460-46704-A-13-E DU ^4
Lab Name: TestAmerica Edison Job No.: 460-43833-1
SDG No.: _____
% Solids for Sample: 82.9 % Solids for Duplicate: 82.9
Matrix: Solid Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Arsenic	1.1	1.1 U	1.1 U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-134824/2-A ^4

Lab Name: TestAmerica Edison

Job No.: 460-43833-1

Sample Matrix: Solid

LCS Source: ME_LCSS_77_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	162	151.1		93.5	70.8	129.8		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 460-46704-A-13-D SD ^20

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-43833-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Arsenic	1.1	U	5.6	U	NC		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-43833-1
SDG Number: _____
Matrix: Solid Instrument ID: ICP5
Method: 6010B MDL Date: 02/08/2012 17:17
Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		1	0.94

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-43833-1
SDG Number: _____
Matrix: Solid Instrument ID: ICP5
Method: 6010B XMDL Date: 11/14/2011 14:14

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		5	3.729

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-134824/1-A ^2	11/08/2012 08:15	134824	1.00		50
LCSSRM 460-134824/2-A ^4	11/08/2012 08:15	134824	1.04		50
460-46704-A-13-E DU ^4	11/08/2012 08:15	134824	1.05		50
460-46704-A-13-F MS ^4	11/08/2012 08:15	134824	1.05		50
460-43833-6	11/08/2012 10:41	134824	1.11		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010B

Start Date: 11/10/2012 12:16 End Date: 11/10/2012 17:48

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A S																	
ZZZZZZ			12:16																		
ZZZZZZ			12:19																		
ZZZZZZ			12:23																		
ZZZZZZ			12:27																		
ZZZZZZ			12:30																		
ZZZZZZ			12:34																		
ICV 460-135094/7	1		12:38	X																	
ICB 460-135094/8	1		12:41	X																	
ICSA 460-135094/9	1		12:45	X																	
ICSAB 460-135094/10	1		12:49	X																	
ZZZZZZ			12:52																		
ZZZZZZ			12:56																		
ZZZZZZ			13:00																		
ZZZZZZ			13:03																		
ZZZZZZ			13:07																		
ZZZZZZ			13:11																		
ZZZZZZ			13:14																		
ZZZZZZ			13:18																		
CCV 460-135094/19			13:22																		
CCB 460-135094/20			13:25																		
ZZZZZZ			13:29																		
ZZZZZZ			13:33																		
ZZZZZZ			13:36																		
ZZZZZZ			13:40																		
ZZZZZZ			13:44																		
ZZZZZZ			13:48																		
ZZZZZZ			13:51																		
ZZZZZZ			13:55																		
ZZZZZZ			13:59																		
ZZZZZZ			14:03																		
CCV 460-135094/31	1		14:07	X																	
CCB 460-135094/32	1		14:10	X																	
ZZZZZZ			14:14																		
ZZZZZZ			14:18																		
ZZZZZZ			14:21																		
ZZZZZZ			14:25																		
ZZZZZZ			14:29																		
ZZZZZZ			14:32																		
ZZZZZZ			14:36																		
ZZZZZZ			14:40																		
460-43833-6	4	T	14:43	X																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010B

Start Date: 11/10/2012 12:16 End Date: 11/10/2012 17:48

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A S															
LCSSRM 460-134824/2-A ^4	4	T	14:47	X															
CCV 460-135094/43	1		14:50	X															
CCB 460-135094/44	1		14:54	X															
MB 460-134824/1-A ^2	2	T	14:58	X															
460-46704-A-13-E DU ^4	4	T	15:01	X															
ZZZZZZ			15:05																
460-46704-A-13-D SD ^20	20	T	15:09	X															
460-46704-A-13-F MS ^4	4	T	15:12	X															
460-46704-A-13-D PDS ^4	4	T	15:16	X															
ZZZZZZ			15:19																
ZZZZZZ			15:23																
ZZZZZZ			15:27																
ZZZZZZ			15:31																
CCV 460-135094/55	1		15:34	X															
CCB 460-135094/56	1		15:38	X															
ZZZZZZ			15:41																
ZZZZZZ			15:45																
ZZZZZZ			15:49																
ZZZZZZ			15:52																
ZZZZZZ			15:56																
ZZZZZZ			16:00																
ZZZZZZ			16:03																
ZZZZZZ			16:07																
ZZZZZZ			16:10																
ZZZZZZ			16:14																
CCV 460-135094/67			16:17																
CCB 460-135094/68			16:21																
ZZZZZZ			16:25																
ZZZZZZ			16:28																
ZZZZZZ			16:32																
ZZZZZZ			16:36																
ZZZZZZ			16:39																
ZZZZZZ			16:43																
ZZZZZZ			16:47																
ZZZZZZ			16:50																
ZZZZZZ			16:54																
ZZZZZZ			16:57																
CCV 460-135094/79			17:01																
CCB 460-135094/80			17:05																
ZZZZZZ			17:08																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Instrument ID: ICP5 Method: 6010B

Start Date: 11/10/2012 12:16 End Date: 11/10/2012 17:48

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A	S																
ZZZZZZ			17:12																		
ZZZZZZ			17:16																		
ZZZZZZ			17:19																		
ZZZZZZ			17:23																		
ZZZZZZ			17:27																		
ZZZZZZ			17:30																		
ZZZZZZ			17:34																		
ZZZZZZ			17:37																		
ZZZZZZ			17:41																		
CCV 460-135094/91			17:45																		
CCB 460-135094/92			17:48																		

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Batch Number: 134824 Batch Start Date: 11/08/12 08:15 Batch Analyst: Chen, MandiBatch Method: 3050B Batch End Date: 11/08/12 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00033	ME_LCSS_77 00002	
MB 460-134824/1		3050B, 6010B		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-134824/2		3050B, 6010B		CALC NOT SET TO RUN	1.04 g	50 mL		1 g	
460-46704-A-13 DU		3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL			
460-46704-A-13 MS		3050B, 6010B	T	CALC NOT SET TO RUN	1.05 g	50 mL	2 mL		
460-43833-A-6	SO-17338-082212-mm-208	3050B, 6010B	T	CALC NOT SET TO RUN	1.11 g	50 mL			

Batch Notes	
Balance ID	35
Hydrogen peroxide lot number	K45J00
Lot # of hydrochloric acid	L02A02
Logbook ID for diluted Nitric	MPR197
Lot # of Nitric Acid	L12065
Hood ID or number	8
Hot Block ID number	1
Pipette ID	25
Temperature	95 uncorr, 94 corr Degrees C
ID number of the thermometer	ICP-2
Digestion Tube/Cup Lot #	147898264

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-43833-1
SDG No.: _____
Project: 17338-T04-2012, GM Wilmington

Client Sample ID	Lab Sample ID
<u>SO-17338-082212-mm-203</u>	<u>460-43833-1</u>
<u>SO-17338-082212-mm-204</u>	<u>460-43833-2</u>
<u>SO-17338-082212-mm-205</u>	<u>460-43833-3</u>
<u>SO-17338-082212-mm-206</u>	<u>460-43833-4</u>
<u>SO-17338-082212-mm-207</u>	<u>460-43833-5</u>
<u>SO-17338-082212-mm-208</u>	<u>460-43833-6</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-43833-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-43833-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/24/2012 15:58 End Date: 08/24/2012 15:58

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l	M o i s t																
ZZZZZZ			15:58																		
460-43833-1	1	T	15:58	X	X																
460-43833-2	1	T	15:58	X	X																
460-43833-3	1	T	15:58	X	X																
460-43833-4	1	T	15:58	X	X																
460-43833-5	1	T	15:58	X	X																
460-43833-6	1	T	15:58	X	X																
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
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ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
ZZZZZZ			15:58																		
460-43853-A-6 DU	1	T	15:58	X	X																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-43833-1

SDG No.: _____

Batch Number: 125462 Batch Start Date: 08/24/12 15:58 Batch Analyst: Armbruster, ChrisBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-43833-A-1	SO-17338-082212-mm-203	Moisture	T	86	1.02 g	6.13 g	5.73 g		
460-43833-A-2	SO-17338-082212-mm-204	Moisture	T	87	1.02 g	6.36 g	5.02 g		
460-43833-A-3	SO-17338-082212-mm-205	Moisture	T	88	1.03 g	6.21 g	5.50 g		
460-43833-A-4	SO-17338-082212-mm-206	Moisture	T	89	0.96 g	6.79 g	5.75 g		
460-43833-A-5	SO-17338-082212-mm-207	Moisture	T	90	1.04 g	6.47 g	5.41 g		
460-43833-A-6	SO-17338-082212-mm-208	Moisture	T	91	1.02 g	6.99 g	5.93 g		
460-43853-A-6 DU		Moisture	T	105	0.99 g	6.01 g	5.21 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	8/24/12
Oven Temp when samples are put in oven	105 Degrees C
Time samples were place in the oven	16:24
Date samples were removed from oven	8/25/12
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	15:30
Oven ID	2
ID number of the thermometer	2935
Uncorrected In Temperature	None Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

TestAmerica

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

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Name (for report and invoice) <i>Chris Bolton</i>		Samplers Name (Printed)		Site/Project Identification	
Company <i>CEA</i>		P.O. #		State (Location of site): NJ: ☐ NY: ☐ Other: ☐	
Address <i>City: Buffalo NY</i>		Analysis Turnaround Time Standard ☐ Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐		Regulatory Program:	
Phone <i>716-856-2143</i>		Fax		LAB USE ONLY Project No: Job No: <i>48833</i>	
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers
<i>SO-17338-082212-MM-203</i>	<i>8/22/12</i>	<i>1000</i>	<i>Soil</i>	<i>1</i>	<i>1</i>
<i>SO-17338-082212-MM-204</i>		<i>1050</i>			<i>2</i>
<i>SO-17338-082212-MM-205</i>		<i>1130</i>			<i>3</i>
<i>SO-17338-082212-MM-206</i>		<i>1245</i>			<i>4</i>
<i>SO-17338-082212-MM-207</i>		<i>1405</i>			<i>5</i>
<i>SO-17338-082212-MM-208</i>		<i>1420</i>			<i>6</i>
1000 SAMPLES					
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH 6 = Other _____, 7 = Other _____					
Soil: _____ Water: _____					

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <i>[Signature]</i>	Company <i>CEA</i>	Date / Time <i>8/22/12 1530</i>	Received by <i>[Signature]</i>	Company <i>TA</i>
Relinquished by <i>[Signature]</i>	Company <i>TA</i>	Date / Time <i>8/20/12 1730</i>	Received by <i>[Signature]</i>	Company <i>TEST AMERICA</i>
Relinquished by <i>[Signature]</i>	Company <i>TA</i>	Date / Time <i>8/22/12 1925</i>	Received by <i>[Signature]</i>	Company <i>2.e. etc.</i>
Relinquished by <i>[Signature]</i>	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132),
Massachusetts (M-NJ312), North Carolina (No. 578)

7AL - 0016 (0408)

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 460-43833-1

Login Number: 43833

List Source: TestAmerica Edison

List Number: 1

Creator: Meyers, Gary

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.	N/A	Not present
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	2.6 ° C iR #60
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.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.