

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-110405-1

TestAmerica Sample Delivery Group: SET2894B

Client Project/Site: Lewport Middle

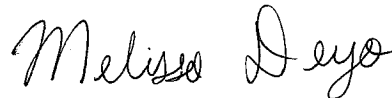
For:

Sienna Environmental Technologies LLC

350 Elmwood Avenue

Buffalo, New York 14222

Attn: Suzanne Kelley



Authorized for release by:

12/7/2016 2:47:30 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

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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: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

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)

Case Narrative

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Job ID: 480-110405-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110405-1

Receipt

The sample was received on 12/2/2016 2:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.8° C.

Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: MSG-KFC-04 (480-110405-1). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. Preserved on 12/02/16 @ 1900. Acid lot number 139908

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Client Sample ID: MSG-KFC-04

Lab Sample ID: 480-110405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.8		1.0	0.17	ug/L	1		200.8	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Client Sample ID: MSG-KFC-04

Lab Sample ID: 480-110405-1

Date Collected: 12/02/16 05:46

Matrix: Water

Date Received: 12/02/16 14:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.8		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 14:31	1

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QC Sample Results

Client: Sienna Environmental Technologies LLC
 Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
 SDG: SET2894B

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334705/1-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.17	ug/L		12/05/16 10:09	12/05/16 23:11	1

Lab Sample ID: LCS 480-334705/2-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	20.0	19.85		ug/L		99	85 - 115

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QC Association Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Metals

Prep Batch: 334705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110405-1	MSG-KFC-04	Total/NA	Water	200.8	
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 334948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	334705
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	334705

Analysis Batch: 335179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110405-1	MSG-KFC-04	Total/NA	Water	200.8	334705

Lab Chronicle

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Client Sample ID: MSG-KFC-04

Lab Sample ID: 480-110405-1

Date Collected: 12/02/16 05:46

Matrix: Water

Date Received: 12/02/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 14:31	MTM2	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Certification Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

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Method Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Middle

TestAmerica Job ID: 480-110405-1
SDG: SET2894B

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110405-1	MSG-KFC-04	Water	12/02/16 05:46	12/02/16 14:00

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Chain of Custody Record

Client Information		Sampler: <i>Randall Bauer</i>		Lab PM: Devo, Melissa L		Carrier Tracking No(s):	
Client Contact: Joe Pastore		Phone: 716-332-3134 x305		E-Mail: melissa.devo@testamericainc.com		COC No:	
Company: Sienna Environmental Technologies LLC		Due Date Requested:		Analysis Requested		Page: 1 of 1	
Address: 350 Elmwood Avenue		TAT Requested (days): 10		Field Filtered Sample (Yes or No)		Job #: 2894B	
City: Buffalo		PO #: Purchase Order not required		Pattern MS/MSD (Yes or No)		Preservation Codes:	
State, Zip: NY, 14222		WO #: Project #: <i>SET 2894B</i>		200.8 - Lead		A - HCL M - Hexane	
Phone: 716-332-3134(Tel)		SSOW#: <i>Lewport Middle</i>		D		B - N	
Email: Labresults@siennaet.com		Sample Date		D		C - Z	
Project Name: Lead in Drinking Water Analysis		Sample Time		D		D - F	
Site: <i>Lewport Middle</i>		Sample Time		D		E - N	
Sample Identification		Sample Time		D		F - N	
<i>MS6-KFC-04</i>		Sample Time		D		G - I	
Matrix (W=water, S=solid, O=wastewater, ET=Tissue, Asst)		Sample Time		D		H - J	
Sample Type (C=Comp, G=grab)		Sample Time		D		I - Lc	
Preservation Code		Sample Time		D		J - E	
G		Sample Time		D		K - E	
Water		Sample Time		D		L - EDA	
Sample Date		Sample Time		D		Other:	
12/2/16		Sample Time		D		Z - other (specify)	
0546		Sample Time		D		Total Number of Containers	
Special Instructions/Note:		Sample Time		D		Special Instructions/Note:	
MS6-KFC-04		Sample Time		D		Special Instructions/Note:	
Possible Hazard Identification		Sample Time		D		Special Instructions/Note:	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Time		D		Special Instructions/Note:	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Time		D		Special Instructions/Note:	
Empty Kit Relinquished by:		Sample Time		D		Special Instructions/Note:	
Relinquished by: <i>Randall Bauer</i>		Sample Time		D		Special Instructions/Note:	
Date/Time: 12-2-16 / 1400		Sample Time		D		Special Instructions/Note:	
Relinquished by: <i>Randall Bauer</i>		Sample Time		D		Special Instructions/Note:	
Date/Time:		Sample Time		D		Special Instructions/Note:	
Relinquished by:		Sample Time		D		Special Instructions/Note:	
Date/Time:		Sample Time		D		Special Instructions/Note:	
Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Sample Time		D		Special Instructions/Note:	
Custody Seal No.:		Sample Time		D		Special Instructions/Note:	
Relinquished by: <i>Randall Bauer</i>		Sample Time		D		Special Instructions/Note:	
Date/Time: 12-2-16 / 1400		Sample Time		D		Special Instructions/Note:	
Relinquished by: <i>Chauhan</i>		Sample Time		D		Special Instructions/Note:	
Date/Time:		Sample Time		D		Special Instructions/Note:	
Relinquished by:		Sample Time		D		Special Instructions/Note:	
Date/Time:		Sample Time		D		Special Instructions/Note:	
Cooler Temperature(s) °C and Other Remarks: <i>15.8H 10.5E</i>		Sample Time		D		Special Instructions/Note:	
Special Instructions/QC Requirements:		Sample Time		D		Special Instructions/Note:	
<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Time		D		Special Instructions/Note:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Time		D		Special Instructions/Note:	



Login Sample Receipt Checklist

Client: Sienna Environmental Technologies LLC

Job Number: 480-110405-1

SDG Number: SET2894B

Login Number: 110405

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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.	False	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	SIENNA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-110406-1

TestAmerica Sample Delivery Group: SET2894D

Client Project/Site: Lewport Primary Educ. Center

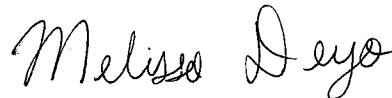
For:

Sienna Environmental Technologies LLC

350 Elmwood Avenue

Buffalo, New York 14222

Attn: Suzanne Kelley



Authorized for release by:

12/7/2016 2:56:04 PM

Melissa Deyo, Project Manager I

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melissa.deyo@testamericainc.com

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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: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

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)

Case Narrative

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Job ID: 480-110406-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110406-1

Receipt

The samples were received on 12/2/2016 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.8° C.

Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: PEC36-CFC-04 (480-110406-1), PEC37-CFC-04 (480-110406-2) and PEC36-CF9-04 (480-110406-3). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. Preserved on 12/02/16 @ 1900. Acid lot number 139908.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Client Sample ID: PEC36-CFC-04

Lab Sample ID: 480-110406-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.4		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: PEC37-CFC-04

Lab Sample ID: 480-110406-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.2		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: PEC39-CFC-04

Lab Sample ID: 480-110406-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.6		1.0	0.17	ug/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Client Sample ID: PEC36-CFC-04

Date Collected: 12/02/16 06:00

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.4		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 14:38	1

Client Sample ID: PEC37-CFC-04

Date Collected: 12/02/16 06:01

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-2

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.2		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 14:44	1

Client Sample ID: PEC39-CFC-04

Date Collected: 12/02/16 06:02

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-3

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 14:51	1

QC Sample Results

Client: Sienna Environmental Technologies LLC
 Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
 SDG: SET2894D

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334705/1-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.17	ug/L		12/05/16 10:09	12/05/16 23:11	1

Lab Sample ID: LCS 480-334705/2-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	20.0	19.85		ug/L		99	85 - 115

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QC Association Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Metals

Prep Batch: 334705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110406-1	PEC36-CFC-04	Total/NA	Water	200.8	
480-110406-2	PEC37-CFC-04	Total/NA	Water	200.8	
480-110406-3	PEC39-CFC-04	Total/NA	Water	200.8	
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 334948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	334705
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	334705

Analysis Batch: 335179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110406-1	PEC36-CFC-04	Total/NA	Water	200.8	334705
480-110406-2	PEC37-CFC-04	Total/NA	Water	200.8	334705
480-110406-3	PEC39-CFC-04	Total/NA	Water	200.8	334705

Lab Chronicle

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Client Sample ID: PEC36-CFC-04

Date Collected: 12/02/16 06:00

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 14:38	MTM2	TAL BUF

Client Sample ID: PEC37-CFC-04

Date Collected: 12/02/16 06:01

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 14:44	MTM2	TAL BUF

Client Sample ID: PEC39-CFC-04

Date Collected: 12/02/16 06:02

Date Received: 12/02/16 14:00

Lab Sample ID: 480-110406-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 14:51	MTM2	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

- 1
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Method Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport Primary Educ. Center

TestAmerica Job ID: 480-110406-1
SDG: SET2894D

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110406-1	PEC36-CFC-04	Water	12/02/16 06:00	12/02/16 14:00
480-110406-2	PEC37-CFC-04	Water	12/02/16 06:01	12/02/16 14:00
480-110406-3	PEC39-CFC-04	Water	12/02/16 06:02	12/02/16 14:00

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Chain of Custody Record

Client Information		Sampler: <u>Randall Bauer</u>		Lab PWT: Deyo, Melissa L		Carrier Tracking No(s):	
Client Contact: Joe Pastore		Phone: 716-332-3134 x305		E-Mail: melissa.deyo@testamericainc.com		Page of	
Company: Sierra Environmental Technologies LLC		Due Date Requested:		Analysis Requested		Job #: <u>SET 2894D</u>	
Address: 350 Elmwood Avenue		TAT Requested (days): <u>10</u>		PO #: Purchase Order not required		Preservation Codes: A - HCL M - Hexane B - NaOH N - Nitro C - Zn O - Other (specify) D - Ni P - Phosphate E - Ni S - Solids F - M T - Tissue G - A U - Urine H - A V - Volatiles I - Ice W - Water J - DI X - Xeno K - EL Y - Y L - EDA Z - other (specify) Other: decalhydrate 480-110406 COC	
City: Buffalo		PO #: <u>SET 2894D</u>		Project #: <u>SET 2894D</u>		Total Number of Containers	
State, Zip: NY, 14222		WO #:		SSOW#:		Special Instructions/Note:	
Phone: 716-332-3134(Tel)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Email: Labresults@siennaet.com		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
Project Name: Lead in Drinking Water Analysis		Site: <u>Lewport Primary Educ. Center</u>		Sample Date		Sample Type (C=Comp, G=grab)	
Site: <u>Lewport Primary Educ. Center</u>		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
Sample Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
<u>PEC 36-CFC-04</u>		<u>12-2-16</u>		<u>0600</u>		<u>G</u> Water	
<u>PEC 37-CFC-04</u>		<u>12-2-16</u>		<u>0601</u>		<u>G</u> water	
<u>PEC 39-CFC-04</u>		<u>12-2-16</u>		<u>0602</u>		<u>G</u> water	
Possible Hazard Identification		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
Deliverable Requested: I, II, III, IV, Other (specify)		Sample Date		Sample Time		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <u>Randall Bauer</u>		Date/Time: <u>12-2-16/1400</u>		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals: Intact		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company	
<input type="checkbox"/> Yes <input type="checkbox"/> No		<u>518 #1 No 7CF</u>		<u>15.8 #1 No 7CF</u>		<u>SIEMMA</u>	



Login Sample Receipt Checklist

Client: Sienna Environmental Technologies LLC

Job Number: 480-110406-1

SDG Number: SET2894D

Login Number: 110406

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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.	False	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	SIENNA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-110407-1

TestAmerica Sample Delivery Group: SET2894A

Client Project/Site: Lewport High School

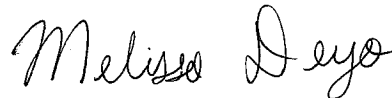
For:

Sienna Environmental Technologies LLC

350 Elmwood Avenue

Buffalo, New York 14222

Attn: Suzanne Kelley



Authorized for release by:

12/7/2016 2:58:03 PM

Melissa Deyo, Project Manager I

(716)504-9874

melissa.deyo@testamericainc.com

LINKS

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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: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

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
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)

Case Narrative

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Job ID: 480-110407-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110407-1

Receipt

The samples were received on 12/2/2016 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.8° C.

Receipt Exceptions

The following samples for metals were received unpreserved and were preserved upon receipt to the laboratory: HS22-KCC-04 (480-110407-1), HS24-KCC-04 (480-110407-2), HS25-KCC-04 (480-110407-3) and HS18-WC-04 (480-110407-4). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion. Preserved on 12/02/16 @ 1900. Acid lot number 139908.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Client Sample ID: HS22-KCC-04

Lab Sample ID: 480-110407-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.7		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: HS24-KCC-04

Lab Sample ID: 480-110407-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.2		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: HS25-KCC-04

Lab Sample ID: 480-110407-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.1		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: HS18-WC-04

Lab Sample ID: 480-110407-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Sienna Environmental Technologies LLC
 Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
 SDG: SET2894A

Client Sample ID: HS22-KCC-04

Lab Sample ID: 480-110407-1

Date Collected: 12/02/16 05:33

Matrix: Water

Date Received: 12/02/16 14:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.7		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 14:57	1

Client Sample ID: HS24-KCC-04

Lab Sample ID: 480-110407-2

Date Collected: 12/02/16 05:34

Matrix: Water

Date Received: 12/02/16 14:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 15:09	1

Client Sample ID: HS25-KCC-04

Lab Sample ID: 480-110407-3

Date Collected: 12/02/16 05:35

Matrix: Water

Date Received: 12/02/16 14:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.1		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 15:16	1

Client Sample ID: HS18-WC-04

Lab Sample ID: 480-110407-4

Date Collected: 12/02/16 05:40

Matrix: Water

Date Received: 12/02/16 14:00

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.17	ug/L		12/05/16 10:09	12/06/16 15:22	1

QC Sample Results

Client: Sienna Environmental Technologies LLC
 Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
 SDG: SET2894A

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334705/1-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.17	ug/L		12/05/16 10:09	12/05/16 23:11	1

Lab Sample ID: LCS 480-334705/2-A
 Matrix: Water
 Analysis Batch: 334948

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 334705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	19.85		ug/L		99	85 - 115

QC Association Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Metals

Prep Batch: 334705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110407-1	HS22-KCC-04	Total/NA	Water	200.8	
480-110407-2	HS24-KCC-04	Total/NA	Water	200.8	
480-110407-3	HS25-KCC-04	Total/NA	Water	200.8	
480-110407-4	HS18-WC-04	Total/NA	Water	200.8	
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 334948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	334705
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	334705

Analysis Batch: 335179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-110407-1	HS22-KCC-04	Total/NA	Water	200.8	334705
480-110407-2	HS24-KCC-04	Total/NA	Water	200.8	334705
480-110407-3	HS25-KCC-04	Total/NA	Water	200.8	334705
480-110407-4	HS18-WC-04	Total/NA	Water	200.8	334705

Lab Chronicle

Client: Sienna Environmental Technologies LLC
 Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
 SDG: SET2894A

Client Sample ID: HS22-KCC-04

Lab Sample ID: 480-110407-1

Date Collected: 12/02/16 05:33

Matrix: Water

Date Received: 12/02/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 14:57	MTM2	TAL BUF

Client Sample ID: HS24-KCC-04

Lab Sample ID: 480-110407-2

Date Collected: 12/02/16 05:34

Matrix: Water

Date Received: 12/02/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 15:09	MTM2	TAL BUF

Client Sample ID: HS25-KCC-04

Lab Sample ID: 480-110407-3

Date Collected: 12/02/16 05:35

Matrix: Water

Date Received: 12/02/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 15:16	MTM2	TAL BUF

Client Sample ID: HS18-WC-04

Lab Sample ID: 480-110407-4

Date Collected: 12/02/16 05:40

Matrix: Water

Date Received: 12/02/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			334705	12/05/16 10:09	MVZ	TAL BUF
Total/NA	Analysis	200.8		1	335179	12/06/16 15:22	MTM2	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

- 1
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Method Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: Sienna Environmental Technologies LLC
Project/Site: Lewport High School

TestAmerica Job ID: 480-110407-1
SDG: SET2894A

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-110407-1	HS22-KCC-04	Water	12/02/16 05:33	12/02/16 14:00
480-110407-2	HS24-KCC-04	Water	12/02/16 05:34	12/02/16 14:00
480-110407-3	HS25-KCC-04	Water	12/02/16 05:35	12/02/16 14:00
480-110407-4	HS18-WC-04	Water	12/02/16 05:40	12/02/16 14:00

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Login Sample Receipt Checklist

Client: Sienna Environmental Technologies LLC

Job Number: 480-110407-1

SDG Number: SET2894A

Login Number: 110407

List Number: 1

Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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.	False	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	SIENNA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	