

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

Melises Deyo

Authorized for release by: 12/7/2016 2:47:30 PM

Melissa Deyo, Project Manager I (716)504-9874 melissa.deyo@testamericainc.com

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

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

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

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Definitions/Glossary

Glossary

Glossary		3
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	5
CFL	Contains Free Liquid	9
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	8
EDL	Estimated Detection Limit	
MDC	Minimum detectable concentration	9
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)	13
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Job ID: 480-110405-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110405-1

Case Narrative

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.

Detection Summary

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

Client Sample ID: I	MSG-KFC-04					Lab Sa	mple ID:	480-110405-1	
Analyte Lead	Result 3.8	Qualifier	RL 1.0	MDL 0.17	Unit ug/L	Dil Fac	D Method 200.8	Prep Type Total/NA	
					Ū				
									Ī

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

5 6

Client Sample ID: MSG-KFC-04			Lab Sample ID: 480-110405-1					
Date Collected: 12/02/1	6 05:46						Matrix	: Water
Date Received: 12/02/1	6 14:00							
 Method: 200.8 - Metal	s (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.8	1.0	0.17	ua/L		12/05/16 10:09	12/06/16 14:31	1

QC Sample Results

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334 Matrix: Water Analysis Batch: 334948		МВ							Cli		ole ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier		RL	r	MDL	Unit	D	F	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 480-33 Matrix: Water Analysis Batch: 334948	4705/2-A							Client	: Sa		Lab Control S Prep Type: To Prep Batch:	otal/NA
			Spike		LCS	LCS					%Rec.	
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Lead			20.0		19.85			ug/L		99	85 - 115	

QC Association Summary

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

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: 334	948				
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: 335 [°]	179				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	MSG-KFC-04	Total/NA	Water	200.8	334705

5

9

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

Laboratory References:

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

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

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

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 Middle

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

TestAmerica Buffalo		
10 Hazelwood Drive	Chain of Custody Docord	
Amherst, NY 14228-2298	CHAIL OF CUAL	nd vecord
Phone (716) 691-2600 Fax (716) 691-7991		
Client Information	sampler Randolf Baler	Lab PM: Deyo, Melissa L
Client Contact	Phone:	E-Mail:
Joe Pastore	716-332-3134 x305	melissa.deyo@testamericainc.com
Company:		
Sienna Environmental Technologies LLC		Analysis Reques
Address:	Due Date Requested:	
350 Elmwood Avenue		
City:	TAT Requested (days):	
Buffalo	10	
State, Zip: NY 14222		
Dhone.	=	
[716-332-3134(Tel)	Purchase Order not required	(ć
Email:	WO #;	N.
l abroatte Beionnact and	,	

Phone (716) 691-2600 Fax (716) 691-7991				the leader in Engronmental testing
Client Information	sampler. Randall Balor	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No:
Client Contact Joe Pastore	Phone: 716-332-3134 x305	E-Mait melissa.deyo@testamericainc.com		Page: 1 Page of 1
Company: Sienna Environmental Technologies LLC		sis	Requested	34994B
Address: 350 Elmwood Avenue	Due Date Requested:			ation Code
City. Buffalo	TAT Requested (days): 10			M - FIEXAN
State. Zip: NY, 14222	2			ი ფ (
Phone: 716-332-3134(Tel)	Po #: Purchase Order not required	l		ij
Emait. Labresults@siennaet.com	,# OM			80-110405 COC
Project Name: Lead in Drinking Water Analysis	Project #. SET 2894B		and the second se	K - Eberrow
d trim tradent	SSOW#:			Other:
	Sample Type Sample (C=comp,	Matrix Matrix (w-water s=solid 0100 0100 0100 0100 0100 0100 0100 01	Joquann Jeic	
Sample (dentification	Sample Date I Ime G=grap B1=Traw, Az Preservation Code			special Instructions/Note:
MSG- KFC-OH	6	Water D		1. A second sec second second sec
		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	issessed if samples are retained	d longer than 1 month)
Non-Hazard I Flammable Skin Irritant Poison B	on B Unknown Kadiological	Coocial Instructions/I/C Parritements	Disposal by Lab Lukerol	re For Monuns
Ueliverable Kequested: I, II, IV, Uther (specify)			ľ	
inquished by:	Date:	Time:	Method of Shipment:	
Ended [Bur Parchall Baver	-16 /1400	Ś	V Date/Time: 2/	21161400 Company
Relinquished by:	Date/Time:	Company Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company Received by:	Date/Time:	Сотралу
Custody Seals intact. Custody Seal No.: A Yes A No		Cooler Temperature(s) $^{\circ}C$ and Other Remarks:	15,8HI	NOICE
		1 1 1 3 1 4	6 7 8 9	1 2 3 4 5

Login Sample Receipt Checklist

Client: Sienna Environmental Technologies LLC

Login Number: 110405 List Number: 1 Creator: Kolb, Chris M

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	

Job Number: 480-110405-1 SDG Number: SET2894B

List Source: TestAmerica Buffalo



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

Melises Deyo

Authorized for release by: 12/7/2016 2:56:04 PM

Melissa Deyo, Project Manager I (716)504-9874 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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Receipt Checklists	14

Definitions/Glossary

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

Glossary

Glossary		3
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	5
CFL	Contains Free Liquid	3
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	8
EDL	Estimated Detection Limit	
MDC	Minimum detectable concentration	9
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)	13
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

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.

Detection Summary

Client: Sienna Environmental Technologies LLC Project/Site: Lewport Primary Educ. Center TestAmerica Job ID: 480-110406-1 SDG: SET2894D

Lab Sample ID: 480-110406-1

Client Sample ID: PEC36-CFC-04

onent oumple ib.								00-110-00-1
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 San	nple ID: 4	80-110406-2
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 San	nple ID: 4	80-110406-3
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.

Client Sample Results

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

Client Sample ID: PEC Date Collected: 12/02/16 06 Date Received: 12/02/16 14	:00				La	b Sample	ID: 480-110 Matrix)406-1 : Water
Method: 200.8 - Metals (IC	P/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: PEC	37-CFC-04				La	b Sample	ID: 480-110)406-2
Date Collected: 12/02/16 06	5:01						Matrix	: Water
Date Received: 12/02/16 14	:00							
Method: 200.8 - Metals (IC	P/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: PEC	39-CFC-04				La	b Sample	ID: 480-110)406-3
Date Collected: 12/02/16 06								: Water
Date Received: 12/02/16 14	:00							
Method: 200.8 - Metals (IC	P/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

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334 Matrix: Water Analysis Batch: 334948		МВ							Cli		ble ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier		RL	ľ	MDL	Unit	D	F	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 480-33 Matrix: Water Analysis Batch: 334948	4705/2-A							Client	t Sa		Lab Control S Prep Type: To Prep Batch:	otal/NA
			Spike		LCS	LCS					%Rec.	
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	
Lead			20.0		19.85			ug/L		99	85 - 115	

QC Association Summary

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

PEC39-CFC-04

Metals

Prep Batch: 334705

480-110406-3

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	
MB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	33470
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	334705
Analysis Batch: 335	179				
Lab Sample ID	Client Sample ID	Bron Type	Matrix	Mothod	Dron Batel
	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID 480-110406-1 480-110406-2	Client Sample ID PEC36-CFC-04 PEC37-CFC-04	Prep Type Total/NA Total/NA	Matrix Water Water	Method 200.8 200.8	Prep Batc 33470 33470

Total/NA

Water

200.8

334705

	Batch	Batch		Dilution	Batch	Prepared			
Prep Туре	Туре	Method	Run	Factor	Number	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 Sam	d: 12/02/16 0						Lab Sa	mple ID:	480-110406-2 Matrix: Water
lient Sam	d: 12/02/16 0	6:01		Dilution	Batch	Prepared	Lab Sa	mple ID:	
Client Sam	d: 12/02/16 0 d: 12/02/16 1/	6:01 4:00 Batch Method	Run	Dilution	Batch Number	or Analyzed	Lab Sa	Lab	
Client Sam Date Collecte Date Received	d: 12/02/16 0 d: 12/02/16 1 Batch	6:01 4:00 Batch	Run			•		-	

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

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	New York	NELAP	2	10026	03-31-17



200.8 Metals (ICP/MS)	EPA	
		TAL BUF
Protocol References:		

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

	vironmental Technologies LLC		TestAmerica Job ID: 480-110406-1	
roject/Site: Lewp	oort Primary Educ. Center		SDG: SET2894D	
ab Sample ID	Client Sample ID	Matrix	Collected Received	
80-110406-1	PEC36-CFC-04	Water	<u>12/02/16 06:00</u> <u>12/02/16 14:00</u>	
80-110406-2	PEC37-CFC-04	Water	12/02/16 06:01 12/02/16 14:00	
80-110406-3	PEC39-CFC-04	Water	12/02/16 06:02 12/02/16 14:00	5
				6
				8
				g
				1
				1
				1

10 Hazelwood Drive Amherst, NY 14228-2298 Pbhone 7148, eq. 2500 E.2. 7718, eq. 7001	Chain of Custody Record	ody Record		
Client Information	Sampler, Randal / Bancr	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No:
Clent Contact Joe Pastore	Phone: 716-332-3134 x305	E-Mait: melissa.deyo@testamericainc.com	1	Page: Page of
Company: Sienna Environmental Technologies LLC		Analysis Requested	Requested	Job #. SET
Address: 350 Elmwood Avenue	Due Date Requested:			Preservation Co
City: Buffalo	TAT Requested (days):			A - HCL B - Na ^{へ・} C - Zr
State, Zp. NY, 14222	2			Z Ż Ż
Phone: 716-332-3134(Tel)	Po #: Purchase Order not required			
Email: Labresults@siennaet.com	WO #	ON 10 :		1 - Ice J - Di 480-110
Project Name: Lead in Drinking Water Analysis	Project #. SET 2894D	10.64 10.64		
ary Educ. (enfl	SSOW#.	X):CISI		of Other:
	Sample (C=como.	Matrix 59.00 (warater, 59.00 (warater, 50.00 Parater, 50.00 Parate		al Number

12/7/2016

Joe Pastore	716-332-3134 x305	melissa.	melissa.deyo@testamericainc.com		4	Page of	
Company: Sienna Environmental Technologies LLC			Analys	Analvsis Rennested	~	100 SET 2894 D	40
Address: 350 Elmwood Avenue	Due Date Requested:					Preservation Codes:	
city: Buffalo	TAT Requested (days):					A - HCL M - Hexane B - Narry N - Norrow C - Zr	a ^`
State, Zip. NY, 14222	2					Z Ž :	
Phone: 716-332-3134(Tel)	Por#. Purchase Order not required	(o				M 4 4)3 Jecahydrate
Emait: Labresults@siennaet.com	:# OM				the second state	1- lce J - DI 480-110406 COC	
Project Name: Lead in Drinking Water Analysis	Project # SET 2894D		10.56			K - EL L - EDÀ	pecify)
SHELEW DOTT Primary Educ. (Confer	SSOW#:					Other:	
	Sample	Matrix 6 (w-water, 6 (w-water, 6 S=solid, 1 D-waste/oil, 10	//2///m/c/1: bsə1 - 8.0		yad Number		
Sample Identification	Sample Date Time G=grab)		1940			Special Instructions/Note:	s/Note:
PEC36-CFC-04	0	Water		d toppedua		and a second	direction of the second s
PEC37-(FC-04	2 1000 21-2-21	voler	<u> </u>				
PEC 39 - CFC- 04	12-2-16 0602 6	wher	٥				
dentification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	ay be assessed if s	amples are retained	f longer than 1 month)	
🔲 Non-Hazard 🔲 Flammable 🛄 Skin Irritant 🛄 Poison B	on B Unknown Radiological		Return To Client	Disposal By Lab	ib [Archive	e For Months	
Deliverable Requested: I, II, IV, Other (specity)			special Instructions/UC Requirements:				
Empty Kit Relinquished by:	Date:	Time:		A C Method of	Method of Shipment:		
Relinquished by Parlin Parchall Barer	12-2-16/1400	Company	Received by:	Kow	221	16 14 00 Conneary	_
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Custody Seals.Intact: Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:	Other Remarks:	5.8井1	Notch	
			1 2 3	9	6 7 8	3 4 5	1 2

Login Sample Receipt Checklist

Client: Sienna Environmental Technologies LLC

Login Number: 110406 List Number: 1 Creator: Kolb, Chris M

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	

Job Number: 480-110406-1 SDG Number: SET2894D

List Source: TestAmerica Buffalo



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

Melises Deyo

Authorized for release by: 12/7/2016 2:58:03 PM Melissa Deyo, Project Manager I

(716)504-9874 melissa.deyo@testamericainc.com

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

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

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

LINKS Review your project results through TOTOLACCESS Have a Question? Ask The Expert

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Definitions/Glossary

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

Glossary

Glossary		3
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	5
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	0
MDA	Minimum detectable activity	ŏ
EDL	Estimated Detection Limit	
MDC	Minimum detectable concentration	9
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)	13
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Job ID: 480-110407-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-110407-1

Case Narrative

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.

Detection Summary

Client: Sienna Environmental Technologies LLC Project/Site: Lewport High School TestAmerica Job ID: 480-110407-1 SDG: SET2894A

Client Sample ID: HS2	2-KCC-04					Lab	o Sa	mple ID:	480-110407-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DN	lethod	Prep Type
Lead	4.7		1.0	0.17	ug/L	1	2	.00.8	Total/NA
Client Sample ID: HS24	4-KCC-04					Lab) Sa	mple ID:	480-110407-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DN	lethod	Prep Type
Lead	4.2		1.0	0.17	ug/L	1	2	00.8	Total/NA
Client Sample ID: HS2	5-KCC-04					Lab	o Sa	mple ID:	480-110407-3
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DN	lethod	Prep Type
Lead	6.1		1.0	0.17	ug/L	1	2	.00.8	Total/NA
Client Sample ID: HS18	8-WC-04					Lab	o Sa	mple ID:	480-110407-4
No Detections.									

Client Sample Results

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

Client Sample ID: HS22-KCC-04							Lab Samp	le ID: 480-11	0407-1
Date Collected: 12/02/16 05:33								Matrix	x: 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 Samp	le ID: 480-11	0407-2
Date Collected: 12/02/16 05:34								Matrix	x: Water
Date Received: 12/02/16 14:00									
Method: 200.8 - Metals (ICP/MS)	Deculé	Qualifier	RL	MDI	11		Dremered	Analyzad	Dil Fac
Analyte		Qualifier		0.17	Unit	D	Prepared 12/05/16 10:09	Analyzed	
Lead	4.2		1.0	0.17	ug/L		12/05/16 10.09	12/06/16 15.09	I
Client Sample ID: HS25-KCC-04							Lab Samp	le ID: 480-11	0407-3
Date Collected: 12/02/16 05:35								Matrix	x: 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 Samp	le ID: 480-11	0407-4
Date Collected: 12/02/16 05:40								Matrix	x: Water
Date Received: 12/02/16 14:00									
Method: 200.8 - Metals (ICP/MS)	Deerst	Qualifian	RL	MD	11	-	Dremered	Analyzad	Dil E
Analyte		Qualifier			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

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 480-334705/1-A Matrix: Water Analysis Batch: 334948	МВ	МВ								CI	lient Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
Analyte	Result	Qualifier		RL		MDL	Unit		D	Prep	ared	Analyzed	Dil Fac
Lead	ND			1.0		0.17	ug/L		_	12/05/1	6 10:09	12/05/16 23:11	1
Lab Sample ID: LCS 480-334705/2-A Matrix: Water Analysis Batch: 334948									С	lient Sa	ample	D: Lab Control Prep Type: 1 Prep Batch	Fotal/NA
			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qual	ifier	Unit		D %	6Rec	Limits	
Lead			20.0		19.85			ug/L			99	85 - 115	

QC Association Summary

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

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	
nalysis Batch: 33494 Lab Sample ID	8 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
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
nalysis Batch: 33517	9				
l ab Sample ID	Client Sample ID	Pren Type	Matrix	Method	Pren Batcl

	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
/IB 480-334705/1-A	Method Blank	Total/NA	Water	200.8	334705
.CS 480-334705/2-A	Lab Control Sample	Total/NA	Water	200.8	334705
nalysis Batch: 33517	79				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-110407-1	HS22-KCC-04	Total/NA	Water	200.8	334705
80-110407-2	HS24-KCC-04	Total/NA	Water	200.8	334705
	HS25-KCC-04	Total/NA	Water	200.8	334705
180-110407-3	11323-1100-04				

		Technologies LLC					Те	stAmerica Job	b ID: 480-110407-1
Project/Site: Lev	wport High Sch	1001							SDG: SET2894A
Client Samp	le ID: HS22-I	-KCC-04					La	b Sample II	D: 480-110407-1
	: 12/02/16 05:33								Matrix: Water
Date Received:									
-		<u> </u>							
	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	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 Samp	le ID: HS24-I	KCC-04					La	b Sample IE	D: 480-110407-2
	: 12/02/16 05:34							•	Matrix: Water
Date Received:									
		<u> </u>							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	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 Sampl	le ID: HS25-	KCC-04					La	b Sample IF	D: 480-110407-3
Date Collected:								-	Matrix: Water
Date Received:									-
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	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 Sampl	le ID: HS18-'	WC-04					La	b Sample IC	D: 480-110407-4
Date Collected: Date Received:									Matrix: Water
	Batch	Batch		Dilution	Batch	Prepared			
	T		_	Fastar	Number	Su Anaburad	Amelyint	l ah	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

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

10

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

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

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

TestAmerica Buffalo

12 13 14

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record

TestAmerica

Phone (716) 691-2600 Fax (716) 691-7991					The leader in Environmental Testing
Client Information	Sampler Randoll Bauer	Lab PM: Deyo, Melissa	ſ	Carrier Tracking No(s):	COC No:
Client Contact: Joe Pastore	Phone: 716-332-3134 x305	E-Maii: melissa.di	E-Mail: melissa.deyo@testamericainc.com		Page: { of }
Company: Sienna Environmental Technologies LLC			Analysis Requested		MA SET 2844
Address: 350 Elmwood Avenue	Due Date Requested:				Do C
City: Buffalo	TAT Requested (days):			·	A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: NY, 14222					D - Nitri E - Nat E - Mat
Phone: 716-332-3134(Tel)	Po #: Purchase Order not required	(0			G - Am G - Am H - Asr Scahydrate
Email: Labresults@siennaet.com		The second s		S .	
Project Name: Lead in Drinking Water Analysis	Project # SET 2894A	ө <u>(</u> , (, 6			K - EL 480-110407 COC scity) L - ED.
she Lew Port High School	#MOSS	a contraction of the second		02.00	Other:
	Sai	Matrix (ered		μυρει	
Sample Identification	Sample Time	Type (Wewater, E S=solid, C (C=comp, 0=wasterioli, 0 G=grab) BT=Tissue, A=AL) (III, 0	1 - 8.002	N RIOL	Special Instructions/Note:
		tion Code	District and the second se		
HSAR-KCC-04	533	G Water	0		
HSAY- KCC-04	5 0534	G water	4		
HSZS-KCC-09	12/2/16 0535	(F Walter	0		
HS18-WC-04	12/2/16 0540	G warer	0		
			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	essed if samples are retaine	d longer than 1 month)
Non-Hazard Hammable Skin Intrant Poison B	son B Unknown L Kaalological		Special Instructions/QC Requirements:	osal by LabHIGRINE FOR	Ve For Monuts
			-	[M-44-14] of Chineman.	
inquished by:	Date:	lime:	- P	Method of Shipment.	
Relinquished by Radia Rower Rower Rower Rower			Received by: Mari NO	$\left[\Lambda \right]^{\text{Date/Time:}} \left[2/2\right]$	1/61400
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Initact Custody Seal No.: A. Yes . A. No.			Cooler Temperature(s) $^{\circ}C$ and Other Remarks.	** 518村	1 No FCE
			0 11 13	6 7 8 9	1 2 3 4 5

Client: Sienna Environmental Technologies LLC

Login Number: 110407 List Number: 1

Creator: Kolb, Chris M

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	
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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	

List Source: TestAmerica Buffalo