

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Phoenix

4625 East Cotton Ctr Blvd

Suite 189

Phoenix, AZ 85040

Tel: (602)437-3340

TestAmerica Job ID: 550-104456-1

Client Project/Site: Woodland Valley Ranch (50496)

For:

Mohave Environmental Laboratory

2580 Landon Dr

Suite A

Bullhead City, Arizona 86429

Attn: Sheila Poff



Authorized for release by:

6/25/2018 4:56:04 PM

Mary Hamilton, Project Manager I

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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.

Definitions/Glossary

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

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Laboratory: TestAmerica Phoenix

Narrative

Job Narrative
550-104456-1

Comments

No additional comments.

Receipt

The sample was received on 6/14/2018 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

Metals

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

Client Sample Results

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

Client Sample ID: Well house (50496-01)

Date Collected: 06/11/18 14:00

Date Received: 06/14/18 09:05

Lab Sample ID: 550-104456-1

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0052		0.0010	mg/L		06/20/18 06:29	06/22/18 13:31	1

QC Sample Results

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 550-149943/1-A

Matrix: Water

Analysis Batch: 150204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 149943

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	mg/L		06/20/18 06:29	06/22/18 13:11	1

Lab Sample ID: LCS 550-149943/3-A

Matrix: Water

Analysis Batch: 150204

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 149943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0976		mg/L		98	85 - 115

Lab Sample ID: LCSD 550-149943/4-A

Matrix: Water

Analysis Batch: 150204

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 149943

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	0.100	0.0978		mg/L		98	85 - 115	0	20

Lab Sample ID: 550-104565-A-1-B MS

Matrix: Water

Analysis Batch: 150204

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 149943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0010		0.100	0.103		mg/L		103	70 - 130

Lab Sample ID: 550-104565-A-1-C MSD

Matrix: Water

Analysis Batch: 150204

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 149943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	<0.0010		0.100	0.100		mg/L		100	70 - 130	3	20

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QC Association Summary

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

Metals

Prep Batch: 149943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-104456-1	Well house (50496-01)	Total/NA	Drinking Water	200.8	
MB 550-149943/1-A	Method Blank	Total/NA	Water	200.8	
LCS 550-149943/3-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 550-149943/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	
550-104565-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	
550-104565-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Analysis Batch: 150204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
550-104456-1	Well house (50496-01)	Total/NA	Drinking Water	200.8	149943
MB 550-149943/1-A	Method Blank	Total/NA	Water	200.8	149943
LCS 550-149943/3-A	Lab Control Sample	Total/NA	Water	200.8	149943
LCSD 550-149943/4-A	Lab Control Sample Dup	Total/NA	Water	200.8	149943
550-104565-A-1-B MS	Matrix Spike	Total/NA	Water	200.8	149943
550-104565-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	149943

Lab Chronicle

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

Client Sample ID: Well house (50496-01)

Date Collected: 06/11/18 14:00

Date Received: 06/14/18 09:05

Lab Sample ID: 550-104456-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			149943	06/20/18 06:29	SGO	TAL PHX
Total/NA	Analysis	200.8		1	150204	06/22/18 13:31	ARE	TAL PHX

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

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TestAmerica Job ID: 550-104456-1

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arizona	State Program	9	AZ0728	06-09-19
Nevada	State Program	9	AZ01030	07-31-18 *

TestAmerica Phoenix

Method Summary

Client: Mohave Environmental Laboratory
Project/Site: Woodland Valley Ranch (50496)

TestAmerica Job ID: 550-104456-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PHX
200.8	Preparation, Total Metals	EPA	TAL PHX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL PHX = TestAmerica Phoenix, 4625 East Cotton Ctr Blvd, Suite 189, Phoenix, AZ 85040, TEL (602)437-3340

Login Sample Receipt Checklist

Client: Mohave Environmental Laboratory

Job Number: 550-104456-1

Login Number: 104456

List Source: TestAmerica Phoenix

List Number: 1

Creator: Gravlin, Andrea

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	Check done at department level as required.