

Technical Report for

Arizona Dept. of Environmental Quality

School District, Lead in Drinking Water Testing

Red Mountain Ranch Elem/Mesa Unified District

SGS Accutest Job Number: LA32794

Sampling Date: 04/20/17

Report to:

Arizona Dept. of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007
db2@azdeq.gov; vs3@azdeq.gov;
diaz.stephanie@azdeq.gov; margallo.emildavid@azdeq.gov;
ATTN: David Burchard

Total number of pages in report: 21



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Ron Benjamin
Ron Benjamin
Lab Director

Client Service contact: Anita Patel 337-237-4775

Certifications: LDEQ(2048), LDHH(LA150012), AR(14-045-04), AZ(AZ0805), FL(E87657), IL(200082), KY(#31),
NC(487), SC(73004001), NJ(LA007), TX(T104704186-15-7), WV(257)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Summary of Hits 4

Section 3: Sample Results 5

3.1: LA32794-1: 1001-1 6

3.2: LA32794-2: 1002-1 7

3.3: LA32794-3: 1003-1 8

Section 4: Misc. Forms 9

4.1: Chain of Custody 10

Section 5: Metals Analysis - QC Data Summaries 16

5.1: Prep QC MP7785: Pb 17



Sample Summary

Arizona Dept. of Environmental Quality

Job No: LA32794

School District, Lead in Drinking Water Testing
Project No: Red Mountain Ranch Elem/Mesa Unified District

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
LA32794-1	04/20/17	06:05 SB	04/25/17	DW	Drinking Water	1001-1
LA32794-2	04/20/17	06:08 SB	04/25/17	DW	Drinking Water	1002-1
LA32794-3	04/20/17	06:12 SB	04/25/17	DW	Drinking Water	1003-1

Summary of Hits

Job Number: LA32794
Account: Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing
Collected: 04/20/17

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
---------------	------------------	--------------------	----	-----	-------	--------

LA32794-1 1001-1

No hits reported in this sample.

LA32794-2 1002-1

Lead	3.7	1.0	ug/l	EPA 200.8
------	-----	-----	------	-----------

LA32794-3 1003-1

No hits reported in this sample.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1001-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32794-1	Date Received:	04/25/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Project:	School District, Lead in Drinking Water Testing		

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	ND	15	1.0	ug/l	1	05/04/17	05/07/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7587
(2) Prep QC Batch: MP7785

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)
ND = Not detected

Report of Analysis

Client Sample ID:	1002-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32794-2	Date Received:	04/25/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Project:	School District, Lead in Drinking Water Testing		

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	3.7	15	1.0	ug/l	1	05/04/17	05/07/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7587
(2) Prep QC Batch: MP7785

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)

ND = Not detected

Report of Analysis

Client Sample ID:	1003-1	Date Sampled:	04/20/17
Lab Sample ID:	LA32794-3	Date Received:	04/25/17
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Project:	School District, Lead in Drinking Water Testing		

Total Metals Analysis

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	ND	15	1.0	ug/l	1	05/04/17	05/07/17 RT	EPA 200.8 ¹	EPA 200.8 ²

(1) Instrument QC Batch: MA7587
(2) Prep QC Batch: MP7785

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 141)

ND = Not detected

Misc. Forms**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody

LA 32794

District	School	Building No	Building Desc	Building Use	Year Built	Number of Bottles Per Building
Mesa Unified District	Red Mountain Ranch Elementary	1001	A1000	Admin/MPP/Class	1994	1
Mesa Unified District	Red Mountain Ranch Elementary	1002	A2000	Central Plant	1994	1
Mesa Unified District	Red Mountain Ranch Elementary	1003	A3000 / R-589	Classrooms	1999	1
Address:	6650 E Raft River Rd. Mesa, AZ 85215				Number of Bottles Per Kit:	3

1-250 ml w/p 3602

24. 1
PV260

3
1
1

LA32794: Chain of Custody

Page 1 of 6

LA32794

ADEQ Public School Drinking Water Lead Screening Program
Sampling Plan & Collection Log

Collection Log
for experienced sample collectors

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

☒ Check this box to confirm that **water had not been used at this tap or other taps in the area for 6 hours** and **no flushing** was done prior to sampling

Name of School District	Mesa Unified District
School Name	Red Mountain Ranch Elementary
Building (name/number)	1001 far Right
Type of Fixture (tap, drinking fountain etc.)	Drinking fountain (far Right)
Location of Fixture (example, room number)	Hallway outside Media Center Entry
Sample Identification Number (Write this number on the sample container and on this sheet)	1001-1
Date of Collection	4/20/17
Time of Collection	6:05 AM
Printed Name of Sample Collector	Steven Bratcher
Signature Sample Collector	<i>Steven Bratcher</i>

Notes Sample collector:

Analyze this drinking water sample for lead	For Lab use only
Date and Time Lab received	
Signature	
Notes:	

For relinquishing samples upon delivery to labs only

Relinquished date and signature

For 4/24/17 8:10 *Rel-Ex* 4/24/17 1700
These samples were collected for lead screening purposes only and cannot be used for compliance.

Rec: *gddw*

Rec: LA Driver Initials H.C.

Rec: *Kayla Kidd* 4-25-17

Rel: *gddw* 4-25-17 9:30

Rel: LA Driver Initials H.C. 4-25-17 10:00

<http://www.azdeq.gov/LeadScreeningProg> 10:00

LA 32794

ADEQ Public School Drinking Water Lead Screening Program
Sampling Plan & Collection Log

Collection Log
for experienced sample collectors

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

☒ Check this box to confirm that **water had not been used at this tap or other taps in the area for 6 hours** and **no flushing was done** prior to sampling

Name of School District	Mesa Unified District
School Name	Red Mountain Ranch Elementary
Building (name/number)	1002 Teacher Lounge Sink
Type of Fixture (tap, drinking fountain etc.)	Tap Teacher Lounge Sink
Location of Fixture (example, room number)	Teacher Lounge Sink
Sample Identification Number (Write this number on the sample container and on this sheet)	1002-1
Date of Collection	4/20/17
Time of Collection	6:08 AM
Printed Name of Sample Collector	Steven Bratcher
Signature Sample Collector	Steven Bratcher

Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	
Signature	
Notes:	

For relinquishing samples upon delivery to labs only

Relinquished date and signature

These samples were collected for lead screening purposes only and cannot be used for compliance.

LA 32794

ADEQ Public School Drinking Water Lead Screening Program
Sampling Plan & Collection Log

Collection Log
for experienced sample collectors

Complete copy of this form for each sample collected. Your drinking water sample cannot be tested unless a copy of this form is shipped to the lab with each sample. In addition, the sample cannot be tested unless the Sample Identification Number matches the number on the sample container label.

- ☒ Check this box to confirm that **water had not been used at this tap or other taps in the area for 6 hours** and **no flushing** was done prior to sampling

Name of School District	Mesa Unified District
School Name	Red Mountain Ranch Elementary
Building (name/number)	1003 Room 102
Type of Fixture (tap, drinking fountain etc.)	Fountain Portable Room 102
Location of Fixture (example, room number)	Portable Room 102
Sample Identification Number (Write this number on the sample container and on this sheet)	1003 - 1
Date of Collection	4/20/17
Time of Collection	6:12 AM
Printed Name of Sample Collector	Steven Bratcher
Signature Sample Collector	Steven Bratcher

Notes Sample collector:

For Lab use only	
Analyze this drinking water sample for lead	
Date and Time Lab received	
Signature	
Notes:	

For relinquishing samples upon delivery to labs only

Relinquished date and signature

These samples were collected for lead screening purposes only and cannot be used for compliance.

24.1

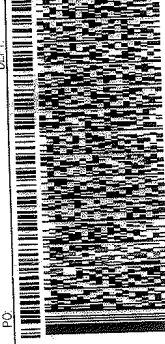


UNIVERSITY OF ARIZONA
BETH PROFFER
ACCUTEST SERVICE CENTER
400 UNIVERSITY DR.
SUITE 149
TEMPE, AZ 85281 US

3003 ULINE 1-800-255-3510
S-3003, ULINE, 1-800-255-3510
C.D. 104685527/NET3850
BILL RECIPIENT

TO HOLD AT FEDEX- SAMPLES
ACCUTEST LABORATORIES-LAFAYETTE, LA
109 COMMISSION BLVD

LAFAYETTE LA 70508
REF. ADEQ PROJECT
(337) 231-4775
NV
PO



2 of 3
MPS# 7789 7949 9663
0203
Mstr# 7789 7949 9310
TUE - 25 APR HOLD
PRIORITY OVERNIGHT
HLD
70508
LFT
LAUS



LA32794: Chain of Custody
Page 5 of 6

SGS Accutest Sample Receipt Summary

Job Number: LA32794

Client: ADEQ

Project: RED MOUNTAIN RANCH ELEMENTARY

Date / Time Received: 4/25/2017 10:00:00 AM

Delivery Method: FedEx

Airbill #s: 778979499663

Cooler Temps (Initial/Adjusted): #1: (24.1/24.1):

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	<input type="checkbox"/>		<input type="checkbox"/>
2. Thermometer ID:	DV260;		
3. Cooler media:	No Ice		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

LA32794: Chain of Custody

Page 6 of 6

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- **Method Blank Summaries**
- **Matrix Spike and Duplicate Summaries**
- **Blank Spike and Lab Control Sample Summaries**
- **Serial Dilution Summaries**

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA32794
Account: ADEQAZP - Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7785
Matrix Type: DRINKING WATER

Methods: EPA 200.8
Units: ug/l

Prep Date: 05/04/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	40	48	26		
Antimony	10	1.6	1.6		
Barium	10	.15	.64		
Beryllium	1.0	.03	.13		
Boron	40	2.3	5		
Calcium	400	27	57		
Lithium	4.0	.1	.21		
Lead	1.0	.045	.26	-0.28	<1.0
Molybdenum	4.0	.3	.87		
Potassium	200	34	18		
Uranium	2.0		.16		

Associated samples MP7785: LA32794-1, LA32794-2, LA32794-3

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA32794
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7785
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32793-4 Original MS		Spikelot MPICPMS5 % Rec		QC Limits
Aluminum					
Antimony					
Barium					
Beryllium					
Boron					
Calcium					
Lithium					
Lead	6.8	205	200	99.1	70-130
Molybdenum					
Potassium					
Uranium					

Associated samples MP7785: LA32794-1, LA32794-2, LA32794-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA32794
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7785
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32793-4 Original MSD	Spikelot MPICPMS5 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	6.8	194	200	93.6
Molybdenum				
Potassium				
Uranium				

Associated samples MP7785: LA32794-1, LA32794-2, LA32794-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA32794

Account: ADEQAZP - Arizona Dept. of Environmental Quality
Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7785

Methods: EPA 200.8

Matrix Type: DRINKING WATER

Units: ug/l

Prep Date: 05/04/17

Metal	BSP Result	Spikelot MPICPMS5	% Rec	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	199	200	99.5	85-115
Molybdenum				
Potassium				
Uranium				

Associated samples MP7785: LA32794-1, LA32794-2, LA32794-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA32794
 Account: ADEQAZP - Arizona Dept. of Environmental Quality
 Project: School District, Lead in Drinking Water Testing

QC Batch ID: MP7785
 Matrix Type: DRINKING WATER

Methods: EPA 200.8
 Units: ug/l

Prep Date: 05/04/17

Metal	LA32793-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Barium				
Beryllium				
Boron				
Calcium				
Lithium				
Lead	3.38	2.86	15.2*(a)	0-10
Molybdenum				
Potassium				
Uranium				

Associated samples MP7785: LA32794-1, LA32794-2, LA32794-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration.