



4401 S. Tucson Estates Parkway
Tucson, Arizona 85735
520.791.2544 Phone
520.791.5260 Fax

20 April 2017

Water Quality Compliance 5415B-1
Arizona Department of Environmental Quality
1110 West Washington Street
Tucson, AZ 85735
RE: Public School Lead Screening Program

Enclosed are the results for Work Order L170435, received by the laboratory on 03/28/2017 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michael E. Dew
Lab Manager

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Health 119A	L170435-01	Aqueous	03/21/2017 09:05	03/28/2017 12:25
Main 106	L170435-02	Aqueous	03/21/2017 09:05	03/28/2017 12:25
Cafeteria West	L170435-03	Aqueous	03/21/2017 09:15	03/28/2017 12:25
Cafeteria East	L170435-04	Aqueous	03/21/2017 09:15	03/28/2017 12:25
Main Nxt 67	L170435-05	Aqueous	03/21/2017 10:00	03/28/2017 12:25
Main-66	L170435-06	Aqueous	03/21/2017 10:00	03/28/2017 12:25
MPR 36	L170435-07	Aqueous	03/21/2017 10:05	03/28/2017 12:25
Cafeteria 83	L170435-08	Aqueous	03/21/2017 10:10	03/28/2017 12:25
SW 107	L170435-09	Aqueous	03/21/2017 10:15	03/28/2017 12:25
SW 102A	L170435-10	Aqueous	03/21/2017 10:15	03/28/2017 12:25
Main 33	L170435-11	Aqueous	03/21/2017 09:25	03/28/2017 12:25
Main Hallway	L170435-12	Aqueous	03/21/2017 09:25	03/28/2017 12:25
Cafeteria Lounge	L170435-13	Aqueous	03/21/2017 09:30	03/28/2017 12:25
Cafeteria Kitchen	L170435-14	Aqueous	03/21/2017 09:30	03/28/2017 12:25
Main QDS B-95	L170435-15	Aqueous	03/21/2017 09:40	03/28/2017 12:25
Main QD-SC	L170435-16	Aqueous	03/21/2017 09:40	03/28/2017 12:25
MPR A100	L170435-17	Aqueous	03/21/2017 09:45	03/28/2017 12:25

Tucson Water Quality Laboratory



Michael E. Dew, Lab Manager

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Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:54

Health 119A
L170435-01 (Aqueous)

Sampled:
03/21/2017 9:05

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:54

Main 106
L170435-02 (Aqueous)

Sampled:
03/21/2017 9:05

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00185	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:54

Cafeteria West
L170435-03 (Aqueous)

Sampled:
03/21/2017 9:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/20/2017 13:54

Cafeteria East
L170435-04 (Aqueous)

Sampled:
 03/21/2017 9:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Project: Public School Lead Screening Program
 Project Number: P01210
 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/20/2017 13:54

Main Nxt 67
L170435-05 (Aqueous)

Sampled:
 03/21/2017 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:54

Main-66
L170435-06 (Aqueous)

Sampled:
 03/21/2017 10:00

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:54

MPR 36
L170435-07 (Aqueous)

Sampled:
 03/21/2017 10:05

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00122	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

Cafeteria 83
L170435-08 (Aqueous)

Sampled:
03/21/2017 10:10

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

SW 107
L170435-09 (Aqueous)

Sampled:
03/21/2017 10:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:54

SW 102A
L170435-10 (Aqueous)

Sampled:
 03/21/2017 10:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

Main 33
L170435-11 (Aqueous)

Sampled:
03/21/2017 9:25

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00836	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

Main Hallway
L170435-12 (Aqueous)

Sampled:
03/21/2017 9:25

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

Cafeteria Lounge
L170435-13 (Aqueous)

Sampled:
03/21/2017 9:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00159	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
04/20/2017 13:54

Cafeteria Kitchen
L170435-14 (Aqueous)

Sampled:
03/21/2017 9:30

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00471	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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 1110 West Washington Street
 Phoenix AZ, 85007

Project: Public School Lead Screening Program
 Project Number: P01210
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Reported:
 04/20/2017 13:54

Main QDS B-95
L170435-15 (Aqueous)

Sampled:
 03/21/2017 9:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00276	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Project Number: P01210
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Reported:
04/20/2017 13:54

Main QD-SC
L170435-16 (Aqueous)

Sampled:
03/21/2017 9:40

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	0.00191	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Reported:
 04/20/2017 13:54

MPR A100
L170435-17 (Aqueous)

Sampled:
 03/21/2017 9:45

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Tucson Water Quality Laboratory

Total Metals by ICPMS

LEAD	ND	0.00100	mg/L	1	BD71407	04/14/2017	04/14/2017	EPA 200.8
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Project: Public School Lead Screening Program
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 Project Manager: Water Quality Compliance 5415B-1

Reported:
 04/20/2017 13:54

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BD71407-MS1)		Source: L170433-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00974	0.00101	mg/L	0.0101	0.000554	90.9	70-130			
Matrix Spike (BD71407-MS2)		Source: L170433-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00919	0.00101	mg/L	0.0101	5.70E-5	90.4	70-130			
Matrix Spike (BD71407-MS3)		Source: L170435-04		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00916	0.00101	mg/L	0.0101	5.10E-5	90.2	70-130			
Matrix Spike (BD71407-MS4)		Source: L170435-14		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0139	0.00101	mg/L	0.0101	0.00471	91.4	70-130			
Matrix Spike (BD71407-MS5)		Source: L170428-07		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0121	0.00101	mg/L	0.0101	3.60E-5	120	70-130			

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Reported:
 04/20/2017 13:54

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike (BD71407-MS6)		Source: L170431-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00976	0.00101	mg/L	0.0101	0.000433	92.3	70-130			
Matrix Spike (BD71407-MS7)		Source: L170431-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0120	0.00101	mg/L	0.0101	0.00271	91.6	70-130			
Matrix Spike (BD71407-MS8)		Source: L170444-03		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0108	0.00101	mg/L	0.0101	0.00128	94.7	70-130			
Matrix Spike (BD71407-MS9)		Source: L170444-13		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0106	0.00101	mg/L	0.0101	0.00107	94.7	70-130			
Matrix Spike Dup (BD71407-MSD1)		Source: L170433-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00998	0.00101	mg/L	0.0101	0.000554	93.4	70-130	2.49	10	

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 04/20/2017 13:54

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BD71407-MSD2)		Source: L170433-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00916	0.00101	mg/L	0.0101	5.70E-5	90.2	70-130	0.308	10	
Matrix Spike Dup (BD71407-MSD3)		Source: L170435-04		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00914	0.00101	mg/L	0.0101	5.10E-5	90.0	70-130	0.243	10	
Matrix Spike Dup (BD71407-MSD4)		Source: L170435-14		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0139	0.00101	mg/L	0.0101	0.00471	90.8	70-130	0.429	10	
Matrix Spike Dup (BD71407-MSD5)		Source: L170428-07		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0122	0.00101	mg/L	0.0101	3.60E-5	121	70-130	0.581	10	
Matrix Spike Dup (BD71407-MSD6)		Source: L170431-01		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.00973	0.00101	mg/L	0.0101	0.000433	92.0	70-130	0.290	10	

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04/20/2017 13:54

Total Metals by ICPMS - Quality Control

Tucson Water Quality Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Matrix Spike Dup (BD71407-MSD7)		Source: L170431-11		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0119	0.00101	mg/L	0.0101	0.00271	90.9	70-130	0.576	10	
Matrix Spike Dup (BD71407-MSD8)		Source: L170444-03		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0109	0.00101	mg/L	0.0101	0.00128	95.0	70-130	0.316	10	
Matrix Spike Dup (BD71407-MSD9)		Source: L170444-13		Prepared & Analyzed: 04/14/2017						
Batch BD71407 - EPA 200.7/200.8										
LEAD	0.0107	0.00101	mg/L	0.0101	0.00107	94.9	70-130	0.209	10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tucson Water Quality Lab
4401 S. Tucson Estates Pkwy.
Tucson, AZ 85735
(520) 837-2455

Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix AZ, 85007

Project: Public School Lead Screening Program
Project Number: P01210
Project Manager: Water Quality Compliance 5415B-1

Reported:
04/20/2017 13:54

Certified Analyses included in this Report

Analyte	Certifications
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Code	Description	Number	Expires
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Reported:
04/20/2017 13:54

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
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TUCSON WATER CHAIN OF CUSTODY

Page 1 of 2

LOGIN ID: <u>L170435</u>				PRESERVATIVE	(HNO3 added in lab)	COMPLIANCE (Y/N)	PROPERTY NAME	ADDRESS	PROPERTY TYPE	COMMENTS	
CLIENT: ADEQ											
PROJECT NAME/FREQUENCY: Public School Lead Screening Program											
PROJECT #: P01210											
SAMPLING DATE: <u>03-21-17</u>				NUMBER OF CONTAINERS	Pb (200.8)						
SAMPLED BY: print full name <u>TUSD - Jerry Merkle</u> signature											
SAMPLE #	TIME	LOCATION	SITE								
-01	09:05	Health 119A	01	1	X	N	Drachman Mag	1085 S. 10th Ave	TUSD	Sink	
-02	09:05	Main 106	02	1	X	N				Sink east	
-03	09:15	Cafeteria West	03	1	X	N				water fountain west	
-04	09:15	Cafeteria East	04	1	X	N				drinking fountain east	
-05	10:00	Main Nxt 47	01	1	X	N	Borton Magnet	700 E. 22nd St		water fountain	
-06	10:00	Main-Cele	02	1	X	N				Sink	
-07	10:05	MPR 36	03	1	X	N				Sink cafeteria kitchen sink	
-08	10:10	Cafeteria 83	04	1	X	N				drinking fountain	
-09	10:15	SW 107	05	1	X	N					
-10	10:15	SW 102A	06	1	X	N				Sink	
-11	09:25	Main 33	01	1	X	N	Ochoa	101 W. 25th St.		Sink	
-12	09:25	Main Hallway	02	1	X	N				Water fountain	
-13	09:30	Cafeteria lounge	03	1	X	N				Sink	
-14	09:30	Cafeteria Kitchen	04	1	X	N				Sink	
-15	09:40	main B-95	05	1	X	N				Sink	
COMMENTS:				CONTACT: TINA COOK 225-4673							
SIGNATURE				DATE/TIME				SIGNATURE			
RELINQUISHED BY: <u>[Signature]</u>				03-28-17				RECEIVED BY: <u>[Signature]</u>			
RELINQUISHED BY: <u>[Signature]</u>				03-28-17 10:52				RECEIVED BY: <u>[Signature]</u>			
RELINQUISHED BY: <u>[Signature]</u>				03-28-17 12:16				RECEIVED BY: <u>[Signature]</u>			

23.4°C

TUCSON WATER CHAIN OF CUSTODY

Page 2 of 2

Page 28 of 28

LOGIN ID: <u>L170435</u>				PRESERVATIVE	NUMBER OF CONTAINERS	CPMS	Pb (200.8)	COMPLIANCE (Y / N)	PROPERTY NAME	ADDRESS	PROPERTY TYPE	COMMENTS			
CLIENT: ADEQ															
PROJECT NAME/FREQUENCY: Public School Lead Screening Program															
PROJECT #: P01210															
SAMPLING DATE:															
SAMPLED BY: print full name <u>TUSD- Jerry Merkle</u>															
signature															
SAMPLE #	TIME	LOCATION	SITE												
<u>16-01</u>	<u>09:40</u>	<u>Main QD-5</u>	<u>06</u>	<u>1</u>		<u>X</u>		<u>N</u>	<u>Ochoa</u>	<u>101 W. 25th St</u>	<u>TUSD</u>	<u>Sink</u>			
<u>17-02</u>	<u>09:45</u>	<u>MPR-A100</u>	<u>07</u>						<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>drinking fountain</u>			
-03															
-04															
-05															
-06															
-07															
-08															
-09															
-10															
-11															
-12															
-13															
-14															
-15															
COMMENTS:				CONTACT: TINA COOK 225-4673											
SIGNATURE				DATE/TIME				SIGNATURE				DATE/TIME			
RELINQUISHED BY:								RECEIVED BY:				<u>03-28-17 08:22</u>			
RELINQUISHED BY:				<u>Hand 2-16</u>				RECEIVED BY:				<u>03/28/17 1226</u>			
RELINQUISHED BY:								RECEIVED BY:							

23.4°C