



*City of Tempe*  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: [www.tempe.gov](http://www.tempe.gov)

July 21, 2017

Justin Bern  
City of Tempe Lead & Copper  
P.O. Box 5002  
Tempe, AZ 85280  
TEL: (480) 350-2860  
FAX (480) 350-2677

RE: ADEQ School Lead Initiative

Order No.: 1707181

Dear Justin Bern:

City of Tempe received 7 sample(s) on 07/18/2017 for the analyses presented in the following report.

Justin Bern  
Quality Officer  
6600 S Price Rd  
Tempe, AZ 85283

Lab license #AZ0055



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## Case Narrative

WO#: 1707181  
Date: 07/21/2017

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**CLIENT:** City of Tempe Lead & Copper  
**Project:** ADEQ School Lead Initiative

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This report in its entirety consists of the documents listed below. All documents contain the City of Tempe Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Copies of the Chain of Custody Documents supplied with this sample set.

Any comments or problems with the analytical events associated with this report are noted below.



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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1707181-001A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** C.I. Waggoner Elementary School 1003-1

**Tag Number:**  
**Collection Date:** 07/15/2017 1:38:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	62	1.0		µg/L	1	07/19/2017 2:00:42 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	07/15/2017 1:40:00 PM
<b>Lab ID:</b>	1707181-002A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	C.I. Waggoner Elementary School 1003-2		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8
						Analyst: MK
Lead	16	1.0		µg/L	1	07/19/2017 2:12:55 PM

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<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as specified at testcode



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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	07/16/2017 10:04:00 AM
<b>Lab ID:</b>	1707181-003A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	C.I. Waggoner Elementary School 1003-3		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>METALS BY ICP/MS</b>					<b>E200.8</b>	<b>E200.8</b> Analyst: <b>MK</b>
Lead	36	1.0		µg/L	1	07/19/2017 2:16:21 PM

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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1707181-004A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** C.I. Waggoner Elementary School 1003-4

**Tag Number:**  
**Collection Date:** 07/15/2017 1:42:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	17	1.0		µg/L	1	07/19/2017 2:27:41 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

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<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	07/15/2017 1:44:00 PM
<b>Lab ID:</b>	1707181-005A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	C.I. Waggoner Elementary School 1003-5		

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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	23	1.0		µg/L	1	07/19/2017 2:31:55 PM

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## Analytical Report

(base report)

WO#: 1707181

Date Reported: 07/21/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1707181-006A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** C.I. Waggoner Elementary School 1003-6

**Tag Number:**  
**Collection Date:** 07/15/2017 1:46:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	790	10		µg/L	10	07/19/2017 2:49:08 PM

**NOTES:**

D2 = Sample required dilution due to high concentration of target analyte.

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## Analytical Report

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WO#: 1707181

Date Reported: 07/21/2017

**CLIENT:** City of Tempe Lead & Copper  
**Matrix:** DRINKING WATER  
**Lab ID:** 1707181-007A  
**Project:** ADEQ School Lead Initiative  
**Client Sample ID** C.I. Waggoner Elementary School 1003-7

**Tag Number:**  
**Collection Date:** 07/15/2017 1:48:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	18	1.0		µg/L	1	07/19/2017 2:39:08 PM

<b>Qualifiers:</b>	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
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## QC SUMMARY REPORT

WO#: 1707181

21-Jul-17

**Client:** City of Tempe Lead & Copper

**Project:** ADEQ School Lead Initiative

**BatchID:** 1022

Sample ID	MB-1022	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	07/19/2017	RunNo:	12759		
Client ID:	PBW	Batch ID:	1022	TestNo:	E200.8	E200.8		Analysis Date:	07/19/2017	SeqNo:	148667		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		ND		1.0										
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Sample ID	LCS-1022	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	07/19/2017	RunNo:	12759			
Client ID:	LCSW	Batch ID:	1022	TestNo:	E200.8	E200.8		Analysis Date:	07/19/2017	SeqNo:	148670			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		100		1.0	100.0	0		101	85	115				
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Sample ID	1707181-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	07/19/2017	RunNo:	12759			
Client ID:	C.I. Waggoner Elem	Batch ID:	1022	TestNo:	E200.8	E200.8		Analysis Date:	07/19/2017	SeqNo:	148672			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		150		1.0	100.0	62.25		92.2	70	130				
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Sample ID	1707181-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	07/19/2017	RunNo:	12759			
Client ID:	C.I. Waggoner Elem	Batch ID:	1022	TestNo:	E200.8	E200.8		Analysis Date:	07/19/2017	SeqNo:	148673			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		160		1.0	100.0	62.25		93.2	70	130	154.4	0.646	20	
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**Qualifiers:** H Holding times for preparation or analysis exceeded  
RL Reporting Detection Limit

M Manual Integration used to determine area response  
W Sample container temperature is out of limit as specified at testcode

ND Not Detected at the Reporting Limit