



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

April 06, 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.: 1704041

Dear Justin Bern:

City of Tempe received 9 sample(s) on 04/05/2017 for the analyses presented in the following report.

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

Lab license #AZ0055



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

## Case Narrative

WO#: 1704041

Date: 04/06/2017

---

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

---

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.



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:43:00 AM
<b>Lab ID:</b>	1704041-001A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1005-02A(First Draw)		

---

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	91	1.0		µg/L	1	04/06/2017 1:21:04 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:44:00 AM
<b>Lab ID:</b>	1704041-002A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1005-02A(1 min)		

---

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	8.4	1.0		µg/L	1	04/06/2017 1:33:23 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:48:00 AM
<b>Lab ID:</b>	1704041-003A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1005-01A(First Draw)		

---

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	16	1.0		µg/L	1	04/06/2017 1:37:25 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:49:00 AM
<b>Lab ID:</b>	1704041-004A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1005-01A(1 min)		

---

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	ND	1.0		µg/L	1	04/06/2017 1:49:27 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:54:00 AM
<b>Lab ID:</b>	1704041-005A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1023-01A(First Draw)		

---

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	25	1.0		µg/L	1	04/06/2017 1:53:24 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 6:55:00 AM
<b>Lab ID:</b>	1704041-006A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1023-01A(1 min)		

---

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	ND	1.0		µg/L	1	04/06/2017 1:57:27 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





City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 7:00:00 AM
<b>Lab ID:</b>	1704041-007A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1023-01A		

---

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	ND	1.0		µg/L	1	04/06/2017 2:01:43 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 7:03:00 AM
<b>Lab ID:</b>	1704041-008A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1023-01A		

---

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	ND	1.0		µg/L	1	04/06/2017 2:26:05 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## Analytical Report

(base report)

WO#: **1704041**

Date Reported: **04/06/2017**

---

<b>CLIENT:</b>	City of Tempe Lead & Copper	<b>Tag Number:</b>	
<b>Matrix:</b>	DRINKING WATER	<b>Collection Date:</b>	04/05/2017 7:04:00 AM
<b>Lab ID:</b>	1704041-009A		
<b>Project:</b>	ADEQ School Lead Initiative		
<b>Client Sample ID</b>	TUHSD_McClintock_High_School_1023-01A		

---

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	ND	1.0		µg/L	1	04/06/2017 2:37:48 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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## QC SUMMARY REPORT

WO#: 1704041

06-Apr-17

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

**BatchID:** 959

Sample ID	MB-959	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	PBW	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142017			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	1.0												
------	----	-----	--	--	--	--	--	--	--	--	--	--	--	--

Sample ID	LCS-959	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	LCSW	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142020			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	0	102	85	115							
------	-----	-----	-------	---	-----	----	-----	--	--	--	--	--	--	--

Sample ID	1704040-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	ZZZZZZ	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142022			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	6.136	108	70	130							
------	-----	-----	-------	-------	-----	----	-----	--	--	--	--	--	--	--

Sample ID	1704040-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180			
Client ID:	ZZZZZZ	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142023			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	6.136	108	70	130	113.9	0.351	20				
------	-----	-----	-------	-------	-----	----	-----	-------	-------	----	--	--	--	--

**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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## QC SUMMARY REPORT

WO#: 1704041

06-Apr-17

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

**BatchID:** 959

Sample ID	1704041-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180		
Client ID:	TUHSD_McClintock	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142032		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		200		1.0	100.0	90.92	111	70	130				

Sample ID	1704041-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12180		
Client ID:	TUHSD_McClintock	Batch ID:	959	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142033		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		200		1.0	100.0	90.92	110	70	130	201.5	0.0993	20	

**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



City of Tempe  
6600 S Price Rd  
Tempe, AZ 85283  
TEL: 4803502855 FAX: 4803502677  
Website: www.tempe.gov

## QC SUMMARY REPORT

WO#: 1704041

06-Apr-17

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

**BatchID:** 960

Sample ID	MB-960	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12181		
Client ID:	PBW	Batch ID:	960	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142040		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		1.0									

Sample ID	LCS-960	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12181		
Client ID:	LCSW	Batch ID:	960	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142043		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		100		1.0	100.0	0	104	85	115				

Sample ID	1704042-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	04/06/2017	RunNo:	12181		
Client ID:	ZZZZZZ	Batch ID:	960	TestNo:	E200.8	E200.8		Analysis Date:	04/06/2017	SeqNo:	142047		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	0	108	70	130				

Sample ID	1704042-001AMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 04/06/2017	RunNo: 12181					
Client ID: ZZZZZZ	Batch ID: 960	TestNo: E200.8	E200.8	Analysis Date: 04/06/2017	SeqNo: 142048						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	110	1.0	100.0	0	108	70	130	107.5	0.741	20	

**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