



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

March 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.: 1702050

Dear Justin Bern:

City of Tempe received 10 sample(s) on 02/06/2017 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

Case Narrative

WO#: 1702050
Date: 03/21/2017

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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:08:00 PM
Lab ID:	1702050-001A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1001-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.3	1.0		µg/L	1	02/09/2017 11:05:56 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:12:00 PM
Lab ID:	1702050-002A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1001-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.4	1.0		µg/L	1	02/09/2017 10:35:20 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:15:00 PM
Lab ID:	1702050-003A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1002-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.4	1.0		µg/L	1	02/09/2017 10:39:10 AM

Qualifiers:	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#: 1702050

Date Reported: 03/21/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:18:00 PM
Lab ID:	1702050-004A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1002-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.2	1.0		µg/L	1	02/09/2017 10:42:36 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:21:00 PM
Lab ID:	1702050-005A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1003-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	ND	1.0		µg/L	1	02/09/2017 10:46:21 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:25:00 PM
Lab ID:	1702050-006A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1003-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	28	1.0		µg/L	1	02/09/2017 10:50:11 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:38:00 PM
Lab ID:	1702050-007A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1004-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	ND	1.0		µg/L	1	02/09/2017 10:53:37 AM

Qualifiers:	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#: 1702050

Date Reported: 03/21/2017

CLIENT: City of Tempe Lead & Copper
Matrix: AQUEOUS
Lab ID: 1702050-008A
Project: ADEQ School Lead Initiative
Client Sample ID Kyrene Elementary District_C I Waggoner School_1005-01

Tag Number:

Collection Date: 02/04/2017 12:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	7.6	1.0		µg/L	1	02/09/2017 11:10:05 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:33:00 PM
Lab ID:	1702050-009A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1005-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	8.4	1.0		µg/L	1	02/09/2017 11:13:31 AM

Qualifiers:	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#: **1702050**

Date Reported: **03/21/2017**

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 12:43:00 PM
Lab ID:	1702050-010A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_C I Waggoner School_1006-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	2.2	1.0		µg/L	1	02/09/2017 11:17:22 AM

Qualifiers:	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#: 1702050

21-Mar-17

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

BatchID: 924

Sample ID	MB-924	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	02/07/2017	RunNo:	11949			
Client ID:	PBW	Batch ID:	924	TestNo:	E200.8	E200.8		Analysis Date:	02/09/2017	SeqNo:	139261			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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

Sample ID	LCS-924	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/07/2017	RunNo:	11949			
Client ID:	LCSW	Batch ID:	924	TestNo:	E200.8	E200.8		Analysis Date:	02/09/2017	SeqNo:	139264			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	97	1.0	100.0	0	97.2	85	115							
------	----	-----	-------	---	------	----	-----	--	--	--	--	--	--	--

Sample ID	1702049-003AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/07/2017	RunNo:	11949			
Client ID:	ZZZZZZ	Batch ID:	924	TestNo:	E200.8	E200.8		Analysis Date:	02/09/2017	SeqNo:	139266			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	0	106	70	130							
------	-----	-----	-------	---	-----	----	-----	--	--	--	--	--	--	--

Sample ID	1702049-003AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	02/07/2017	RunNo:	11949			
Client ID:	ZZZZZZ	Batch ID:	924	TestNo:	E200.8	E200.8		Analysis Date:	02/09/2017	SeqNo:	139267			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	0	106	70	130	106.0	0	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#: 1702050

21-Mar-17

Client: City of Tempe Lead & Copper

Project: ADEQ School Lead Initiative

BatchID: 924

Sample ID	1702050-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/07/2017	RunNo:	11949		
Client ID:	Kyrene Elementary	Batch ID:	924	TestNo:	E200.8	E200.8		Analysis Date:	02/09/2017	SeqNo:	139272		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110		1.0	100.0	1.329	106	70	130				

Sample ID	1702050-001AMSD	SampType: MSD	TestCode: 200.8		Units: µg/L	Prep Date: 02/07/2017				RunNo: 11949		
Client ID:	Kyrene Elementary	Batch ID: 924	TestNo: E200.8		E200.8	Analysis Date: 02/09/2017				SeqNo: 139273		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		110	1.0	100.0	1.329	106	70	130	107.4	0.279	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