



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

March 23, 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.: 1702052

Dear Justin Bern:

City of Tempe received 13 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#: 1702052
Date: 03/23/2017

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 5:58:00 AM
Lab ID:	1702052-001A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1001-01		

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	02/13/2017 11:41:04 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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:01:00 AM
Lab ID:	1702052-002A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1001-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	2.3	1.0		µg/L	1	02/13/2017 11:52:51 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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 5:48:00 AM
Lab ID:	1702052-003A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1002-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.1	1.0		µg/L	1	02/13/2017 11:56:37 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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 5:53:00 AM
Lab ID:	1702052-004A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1002-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	1.8	1.0		µg/L	1	02/13/2017 1:21:53 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:25:00 AM
Lab ID:	1702052-005A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1003-01		

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	02/13/2017 1:25:43 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:30:00 AM
Lab ID:	1702052-006A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle 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	02/13/2017 1:29:11 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:20:00 AM
Lab ID:	1702052-007A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1005-01		

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	02/13/2017 1:32:35 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:43:00 AM
Lab ID:	1702052-008A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1006-01		

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	02/13/2017 1:36:21 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:33:00 AM
Lab ID:	1702052-009A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1007-01		

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	02/13/2017 1:39:49 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:40:00 AM
Lab ID:	1702052-010A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1008-01		

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	02/13/2017 1:43:14 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:05:00 AM
Lab ID:	1702052-011A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1009-01		

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	02/13/2017 1:55:29 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:10:00 AM
Lab ID:	1702052-012A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1009-02		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS				E200.8	E200.8	Analyst: MK
Lead	5.7	1.0		µg/L	1	02/13/2017 2:17:57 PM

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#: 1702052

Date Reported: 03/23/2017

CLIENT:	City of Tempe Lead & Copper	Tag Number:	
Matrix:	AQUEOUS	Collection Date:	02/04/2017 6:15:00 AM
Lab ID:	1702052-013A		
Project:	ADEQ School Lead Initiative		
Client Sample ID	Kyrene Elementary District_Kyrene Middle School_1010-01		

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	02/13/2017 2:21:24 PM

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#: 1702052

23-Mar-17

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

BatchID: 926

Sample ID	MB-926	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	02/08/2017	RunNo:	11952			
Client ID:	PBW	Batch ID:	926	TestNo:	E200.8	E200.8		Analysis Date:	02/13/2017	SeqNo:	139307			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

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

Sample ID	LCS-926	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/08/2017	RunNo:	11952			
Client ID:	LCSW	Batch ID:	926	TestNo:	E200.8	E200.8		Analysis Date:	02/13/2017	SeqNo:	139310			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	0	99.9	85	115							
------	-----	-----	-------	---	------	----	-----	--	--	--	--	--	--	--

Sample ID	1702052-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/08/2017	RunNo:	11952		
Client ID:	Kyrene Elementary	Batch ID:	926	TestNo:	E200.8	E200.8		Analysis Date:	02/13/2017	SeqNo:	139312		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	0	103	70	130							
------	-----	-----	-------	---	-----	----	-----	--	--	--	--	--	--	--

Sample ID	1702052-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	02/08/2017	RunNo:	11952			
Client ID:	Kyrene Elementary	Batch ID:	926	TestNo:	E200.8	E200.8		Analysis Date:	02/13/2017	SeqNo:	139313			
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	70	130	103.4	0.290	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#: 1702052

23-Mar-17

Client: City of Tempe Lead & Copper

Project: ADEQ School Lead Initiative

BatchID: 926

Sample ID	1702052-010AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	02/08/2017	RunNo:	11952		
Client ID:	Kyrene Elementary	Batch ID:	926	TestNo:	E200.8	E200.8		Analysis Date:	02/13/2017	SeqNo:	139323		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		100		1.0	100.0	0	105	70	130				

Sample ID	1702052-010AMSD	SampType: MSD	TestCode: 200.8	Units: µg/L	Prep Date: 02/08/2017	RunNo: 11952					
Client ID: Kyrene Elementary	Batch ID: 926	TestNo: E200.8	E200.8	Analysis Date: 02/13/2017	SeqNo: 139324						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	110	1.0	100.0	0	105	70	130	105.0	0.0952	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