



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

July 03, 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.: 1706182

Dear Justin Bern:

City of Tempe received 22 sample(s) on 06/22/2017 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
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TEL: 4803502855 FAX: 4803502677
Website: www.tempe.gov

Case Narrative

WO#: 1706182
Date: 07/03/2017

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#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-001A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-K3-1

Tag Number:
Collection Date: 06/20/2017 5:41:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	9.8	1.0		µg/L	1	06/26/2017 10:30:14 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-002A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-K3-2

Tag Number:
Collection Date: 06/20/2017 5:45:00 AM

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	06/26/2017 10:34:01 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 5:36:00 AM

Lab ID: 1706182-003A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-K3-3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	3.3	1.0		µg/L	1	06/26/2017 10:37:54 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-004A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-A1

Tag Number:
Collection Date: 06/21/2017 6:16:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	5.2	1.0		µg/L	1	06/26/2017 10:58:22 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-005A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-A2

Tag Number:
Collection Date: 06/21/2017 6:19:00 AM

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	06/26/2017 11:02:14 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-006A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-A3

Tag Number:
Collection Date: 06/21/2017 6:22:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	11	1.0		µg/L	1	06/26/2017 11:06:09 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 6:28:00 AM

Lab ID: 1706182-007A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-A4

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	9.5	1.0		µg/L	1	06/26/2017 11:10:10 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-008A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-A5

Tag Number:
Collection Date: 06/21/2017 6:31:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	6.4	1.0		µg/L	1	06/26/2017 11:14:02 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 6:35:00 AM

Lab ID: 1706182-009A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-A6

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	4.9	1.0		µg/L	1	06/26/2017 11:17:59 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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-010A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-A7

Tag Number:
Collection Date: 06/21/2017 6:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	22	1.0		µg/L	1	06/26/2017 11:21:46 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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 6:13:00 AM

Lab ID: 1706182-011A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-A8

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	10	1.0		µg/L	1	06/26/2017 11:25:31 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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 5:48:00 AM

Lab ID: 1706182-012A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-B1

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	13	1.0		µg/L	1	06/26/2017 11:45:28 AM

Qualifiers:

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 5:52:00 AM

Lab ID: 1706182-013A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-B2

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	8.9	1.0		µg/L	1	06/26/2017 11:49:25 AM

Qualifiers:

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper

Tag Number:

Matrix: DRINKING WATER

Collection Date: 06/21/2017 5:55:00 AM

Lab ID: 1706182-014A

Project: ADEQ School Lead Initiative

Client Sample ID Evans 19-01-B3

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8
						Analyst: MK
Lead	10	1.0		µg/L	1	06/26/2017 11:53:41 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



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Analytical Report

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WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-015A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-B4

Tag Number:
Collection Date: 06/21/2017 6:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	11	1.0		µg/L	1	06/26/2017 12:18:04 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-016A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-B5

Tag Number:
Collection Date: 06/21/2017 6:04:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
METALS BY ICP/MS					E200.8	E200.8 Analyst: MK
Lead	9.4	1.0		µg/L	1	06/26/2017 12:22:03 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-017A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-B6

Tag Number:
Collection Date: 06/21/2017 6:08:00 AM

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	06/26/2017 12:33:55 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



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Analytical Report

(base report)

WO#: 1706182

Date Reported: 07/03/2017

CLIENT: City of Tempe Lead & Copper
Matrix: DRINKING WATER
Lab ID: 1706182-021A
Project: ADEQ School Lead Initiative
Client Sample ID Evans 19-01-D1

Tag Number:
Collection Date: 06/21/2017 5:41:00 AM

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	06/26/2017 12:37:43 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



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QC SUMMARY REPORT

WO#: 1706182

03-Jul-17

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

BatchID: 1008

Sample ID	MB-1008	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12642		
Client ID:	PBW	Batch ID:	1008	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147445		
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-1008	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12642			
Client ID:	LCSW	Batch ID:	1008	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147448			
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
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Sample ID	1706182-003A MS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12642			
Client ID:	Evans 19-01-K3-3	Batch ID:	1008	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147452			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	3.294	110	70	130
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Sample ID	1706182-003A MSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12642			
Client ID:	Evans 19-01-K3-3	Batch ID:	1008	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147453			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	3.294	110	70	130	113.2	0.353	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



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QC SUMMARY REPORT

WO#: 1706182
03-Jul-17

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

BatchID: 1008

Sample ID	1706182-011A MS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12642		
Client ID:	Evans 19-01-A8	Batch ID:	1008	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147462		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120		1.0	100.0	9.991	110	70	130				

Sample ID	1706182-011A MSD	SampType: MSD	TestCode: 200.8		Units: µg/L	Prep Date: 06/26/2017				RunNo: 12642		
Client ID:	Evans 19-01-A8	Batch ID: 1008	TestNo: E200.8		E200.8	Analysis Date: 06/26/2017				SeqNo: 147463		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120	1.0	100.0	9.991	110	70	130	120.3	0.166	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



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QC SUMMARY REPORT

WO#: 1706182

03-Jul-17

Client: City of Tempe Lead & Copper

Project: ADEQ School Lead Initiative

BatchID: 1009

Sample ID	MB-1009	SampType:	MBLK	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644			
Client ID:	PBW	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147467			
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-1009	SampType:	LCS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644			
Client ID:	LCSW	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147470			
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	1706183-001AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147476		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	100	1.0	100.0	8.382	95.2	70	130							
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Sample ID	1706183-001AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644			
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147477			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	110	1.0	100.0	8.382	97.5	70	130	103.6	2.20	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



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QC SUMMARY REPORT

WO#: 1706182

03-Jul-17

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

BatchID: 1009

Sample ID	1706184-003AMS	SampType:	MS	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147484		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120		1.0	100.0	14.13	110	70	130				

Sample ID	1706184-003AMSD	SampType:	MSD	TestCode:	200.8	Units:	µg/L	Prep Date:	06/26/2017	RunNo:	12644		
Client ID:	ZZZZZZ	Batch ID:	1009	TestNo:	E200.8	E200.8		Analysis Date:	06/26/2017	SeqNo:	147485		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120		1.0	100.0	14.13	110	70	130	124.2	0.322	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