

CITY COUNCIL
BOB JOHNSON,
Mayor
MARK CHANDLER,
Mayor Pro Tempore
DOUG KUEHNE
JOANNE MOUNCE
ALAN NAKANISHI

CITY OF LODI

MUNICIPAL SERVICE CENTER
1331 SOUTH HAM LANE
P.O. BOX 3006
LODI, CALIFORNIA 95241-1910
(209) 333-6740
FAX (209) 333-6841
EMAIL pwdept@lodi.gov
<http://www.lodi.gov>

D. STEPHEN SCHWABAUER,
City Manager

JENNIFER ROBISON,
City Clerk

JANICE D. MAGDICH,
City Attorney

F. WALLY SANDELIN
Public Works Director

August 17, 2015

State Water Resources Control Board
Attention: Mr. Bhupinder Sahota
31 East Channel Street, Room 270
Stockton, CA 95202

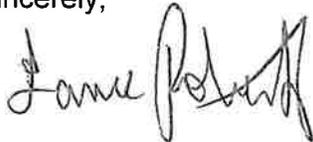
SUBJECT: Lead and Copper Results

In conformance with the United States Environmental Protection Agency's federal Lead and Copper Rules, the City of Lodi submits the enclosed data for its latest round of Lead and Copper monitoring. Water quality parameter data is also included.

The enclosed data shows that the City meets the maximum contaminant levels (MCL's) of 15 ug/L for lead and 1300 ug/L for copper at the 90th percentile. The City had 90th percentile levels of 1.0 ug/L for lead and 270 ug/L for copper.

If you have any questions regarding the matter please contact me at (209) 333-6740.

Sincerely,



Lance Roberts
Utilities Superintendent-Public Works

LR/bl
Enclosures

cc: F. Wally Sandelin, Deputy Public Works Director

LEAD AND COPPER RULE SAMPLING REPORT

System's Name: City of Lodi

Type: CWS NTNCWS

Address: 1331 South Ham Lane
Lodi, CA 95242

Size: >100,000
 50,001 to 100,000
 10,001 to 50,000
 3,301 to 10,000
 501 to 3,300
 101 to 500
 ≤ 100

Telephone Number: 209-333-6740

System ID Number: 3910004

Contact Person: Lance Roberts

Sample Date(s): July 21, 22 & 23, 2015

SAMPLE SITE IDENTIFICATION

Number of sample sites in each category:

- | | |
|---|-----------|
| • Single-family structures with copper pipes with lead solder installed after 1982; or lead pipes; or lead service lines. | <u>38</u> |
| • Multi-family structures with copper pipes with lead solder installed after 1982; or lead pipes; or lead service lines. | <u>0</u> |
| • Buildings containing copper pipes with lead solder installed after 1982; or lead pipes; or lead service lines. | <u>0</u> |
| • Single family structures with copper pipes with lead solder installed before 1983. | <u>0</u> |
| Total: | <u>38</u> |

Number of lead service lines present in the distribution system: 0

Number of samples collected from sites served by lead service lines: N/A

The following sources have been explored to determine the number of structures which have interior lead pipe or copper pipe with lead solder:

- | | |
|--|--|
| <input type="checkbox"/> Plumbing and/or building codes. | <input checked="" type="checkbox"/> Interviews with building inspectors |
| <input checked="" type="checkbox"/> Plumbing and/or building permits. | <input type="checkbox"/> Survey of service area plumbers about when and where lead solder was used from 1982 to present. |
| <input checked="" type="checkbox"/> Contacts with the building department, municipal clerk's office, or state regulatory agencies. | <input type="checkbox"/> Survey of residents. |
| <input type="checkbox"/> Water quality data. | <input type="checkbox"/> Interviews with local contractors & developers. |

The following sources have been explored to determine the number of lead service lines in the distribution system:

- Distribution system maps and record drawings.
- Capitol improvement plans and/or master plans for distribution system development.
- Standard operating procedures and/or operation & maintenance manuals for the types of materials used for service connections.
- Utility records including meter installations, customer complaint investigations .
- Water quality data.
- Interviews with senior personnel.
- Conduct service line sampling where lead service lines are suspected to exist.
- Review of permit files
- Survey of residents.
- Interviews with local pipe supplies, contractors and/or developers.

CITY OF LODI
PUBLIC WORKS DEPARTMENT

Water Quality Parameters, July 2015

LOCATION	DATE	TIME	TEMPERATURE Degrees C	pH	ALKALINITY mg/L	CONDUCTIVITY umhs/cm	HARDNESS mg/L
Well # 1R	7/1/2015	0815	19.4	7.3	60	140	56
Well # 2	7/2/2015	0830	18.6	7.0	120	280	88
Well # 3R	7/8/2015	1000	19.3	7.3	120	280	90
Well # 4R	7/8/2015	0730	18.8	7.1	130	330	100
Well # 5	7/6/2015	0815	17.0	7.0	50	130	40
Well # 6R	7/15/2015	0900	20.0	7.1	170	540	190
Well # 7	7/6/2015	0750	16.1	7.2	43	120	40
Well # 8	Out of Service						
Well # 9	7/14/2015	0800	19.2	7.1	240	640	200
Well # 10C	Out of Service						
Well # 11R	7/2/2015	0815	16.1	7.6	40	90	30
Well # 12	7/23/2015	0800	20.0	7.2	230	730	300
Well # 13	7/15/2015	0945	19.1	7.6	140	390	140
Well # 14	7/2/2015	0750	18.2	7.6	46	410	120
Well # 15	7/14/2015	0900	17.8	7.2	72	190	66
Well # 16	7/2/2015	0940	19.6	7.5	140	360	130
Well # 17	7/20/2015	0915	19.6	7.5	180	470	170
Well # 18	7/1/2015	0915	20.2	7.3	290	810	210
Well # 19	7/14/2015	0820	20.4	7.0	140	440	142
Well # 20	7/1/2015	0940	19.6	7.6	160	460	180
Well # 21	7/7/2015	1250	18.7	7.2	82	240	74
Well # 22	7/7/2015	1100	20.7	7.0	170	510	170
Well # 23	7/1/2015	0745	21.2	7.2	170	490	190
Well # 24	7/20/2015	0800	18.6	7.1	70	150	54
Well # 25	7/21/2015	0840	17.3	7.5	50	110	30
Well # 26	7/6/2015	0725	17.9	7.0	82	240	74
Well # 27	7/21/2015	0800	20.0	7.3	130	360	130
Well # 28	7/21/2015	0730	19.6	7.6	110	430	100
Water Plant TW	7/28/2015	1500	24.6	8.7	26	87	20
2150 Newbury Circle	7/27/2015	1040	23.2	7.6	130	190	140
1038 Downing Drive	7/6/2015	1255	25.6	7.5	50	140	46
1020 S. Central Avenue	7/27/2015	1100	27.0	8.0	53	97	38
2318 St. Antone Drive	7/6/2015	1115	24.5	7.5	30	89	22
103 S. Rose Street	7/27/2015	1110	26.0	8.8	30	94	20
124 Otta Drive	7/27/2015	1145	27.7	8.8	35	100	18
314 Almond Drive	7/20/2015	1000	26.5	7.5	140	390	140
1877 Lakeshore Drive	7/20/2015	1015	24.8	7.5	140	390	140
3000 Park Oak Drive	7/6/2015	1130	25.2	7.6	23	80	20
2046 Edgewood Drive	7/29/2015	1245	25.8	7.7	25	46	20

CITY OF LODI, PUBLIC WORKS DEPARTMENT

INSTRUCTIONS FOR SAMPLING WATER FOR LEAD AND COPPER

Thank you again for participating in the City of Lodi's Lead and Copper Monitoring Program. This sampling is required by the Environmental Protection Agency (E.P.A.) and is being accomplished through the cooperation of homeowners and residents. This program is in addition to the City's existing water testing program.

STEPS TO TAKE WATER SAMPLE

1. Your sample is scheduled to be picked up:
Thursday morning, July 23, 2015
 - A. For those taking a sample first thing in the morning: The night before, turn on the **COLD** water facet (the one to be used in the morning sampling in either the bathroom or kitchen) and let run for at least ten (10) seconds. If the faucet is a single handled fixture, move the arm all the way over to the cold water position. The faucet is now set for the next day sampling.
 - B. For those taking a sample in the afternoon/evening: Before leaving the house, turn on the **COLD** water faucet (the one to be used for sampling in either the bathroom or kitchen) and let run for at least ten (10) seconds. If the faucet is a single handled fixture, move the arm all the way over to the cold water position. The faucet is now set for the afternoon/evening when you return home.
2. Do not use any cold water in the house for at least **SIX** (6) hours prior to taking the sample. During these six hours before sampling, your sprinklers must not come on. The sample should be collected before any water use occurs following the six hours.
3. Before taking the sample, remove the cap from the bottle and place it on a clean counter with the opening face up. **DO NOT** rinse the bottle before taking the sample.
4. Fill the bottle with COLD WATER – the first water from the tap. Do not let the bottle touch the faucet, and shut off the water faucet just before the bottle overflows.
5. Put the cap on the filled bottle tightly. After sampling, normal water use can resume.
6. Write the date and time the sample was taken on the Sample Certification Card, sign the card, and print your name below the signature.
7. Place the Sample, along with the Sample Certification Card, outside of your front door **before 8:00 a.m. on the day above in #1**, for pick up by a City of Lodi employee.
8. It will take about 4 weeks to compile the results of sampling.

(If you forgot, or there was some other problem, see other side.)



2527 Fresno Street
Fresno, CA 93721
(559) 268-7021 Phone
(559) 268-0740 Fax

California ELAP Certificate #1371

August 06, 2015

Work Order #: BG23025

Andrew Richle
City of Lodi
Attn: SWTF P.O. Box 3006
Lodi, CA 95241

RE: Drinking Water- EDT

Enclosed are the analytical results for samples received by our laboratory on 07/23/15 . For your reference, these analyses have been assigned laboratory work order number BG23025 .

All analyses have been performed according to our laboratory's quality assurance program. All results are intended to be considered in their entirety, Moore Twining Associates, Inc. (MTA) is not responsible for use of less than complete reports. Results apply only to samples analyzed.

If you have any questions, please feel free to contact us at the number listed above.

Sincerely,

Moore Twining Associates, Inc.

A handwritten signature in black ink that reads 'Lisa Montijo' in a cursive script.

Lisa Montijo
Client Services Representative



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California ELAP Certificate #1371

City of Lodi
Attn: SWTF P.O. Box 3006
Lodi CA, 95241

Project: Drinking Water- EDT
Project Number: Drinking Water
Project Manager: Andrew Richle

Reported:
08/06/2015

Analytical Report for the Following Samples

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
J27	BG23025-01	Drinking Water	07/21/15 05:47	07/23/15 15:10
J28	BG23025-02	Drinking Water	07/21/15 06:25	07/23/15 15:10
J31	BG23025-03	Drinking Water	07/22/15 04:00	07/23/15 15:10
J34	BG23025-04	Drinking Water	07/22/15 06:49	07/23/15 15:10
J40	BG23025-05	Drinking Water	07/22/15 05:58	07/23/15 15:10
J41	BG23025-06	Drinking Water	07/21/15 22:01	07/23/15 15:10
J43	BG23025-07	Drinking Water	07/22/15 08:00	07/23/15 15:10
J75	BG23025-08	Drinking Water	07/22/15 04:50	07/23/15 15:10
J25	BG23025-09	Drinking Water	07/23/15 04:30	07/23/15 15:10
J32	BG23025-10	Drinking Water	07/23/15 06:19	07/23/15 15:10
J9	BG23025-11	Drinking Water	07/23/15 07:15	07/23/15 15:10
J20	BG23025-12	Drinking Water	07/23/15 06:00	07/23/15 15:10
J54	BG23025-13	Drinking Water	07/23/15 07:10	07/23/15 15:10
J19	BG23025-14	Drinking Water	07/23/15 06:14	07/23/15 15:10
J56	BG23025-15	Drinking Water	07/23/15 06:00	07/23/15 15:10
J5	BG23025-16	Drinking Water	07/23/15 08:00	07/23/15 15:10
J6	BG23025-17	Drinking Water	07/22/15 07:30	07/23/15 15:10
J7	BG23025-18	Drinking Water	07/23/15 07:55	07/23/15 15:10
J3	BG23025-19	Drinking Water	07/23/15 06:00	07/23/15 15:10
J15	BG23025-20	Drinking Water	07/23/15 06:50	07/23/15 15:10
J92	BG23025-21	Drinking Water	07/22/15 06:25	07/23/15 15:10
J91	BG23025-22	Drinking Water	07/22/15 06:30	07/23/15 15:10
J94	BG23025-23	Drinking Water	07/22/15 05:15	07/23/15 15:10
J97	BG23025-24	Drinking Water	07/21/15 06:03	07/23/15 15:10
J89	BG23025-25	Drinking Water	07/22/15 07:15	07/23/15 15:10
J86	BG23025-26	Drinking Water	07/22/15 08:04	07/23/15 15:10
J85	BG23025-27	Drinking Water	07/21/15 07:15	07/23/15 15:10
J83	BG23025-28	Drinking Water	07/22/15 05:15	07/23/15 15:10
J80	BG23025-29	Drinking Water	07/21/15 04:45	07/23/15 15:10
J98	BG23025-30	Drinking Water	07/21/15 05:37	07/23/15 15:10
J55	BG23025-31	Drinking Water	07/23/15 07:00	07/23/15 15:10
J45	BG23025-32	Drinking Water	07/23/15 07:22	07/23/15 15:10
J81	BG23025-33	Drinking Water	07/23/15 05:47	07/23/15 15:10
J51	BG23025-34	Drinking Water	07/22/15 18:21	07/23/15 15:10
J47	BG23025-35	Drinking Water	07/23/15 07:10	07/23/15 15:10
J49	BG23025-36	Drinking Water	07/23/15 06:01	07/23/15 15:10
J84	BG23025-37	Drinking Water	07/22/15 16:15	07/23/15 15:10
J79	BG23025-38	Drinking Water	07/22/15 07:30	07/23/15 15:10



2527 Fresno Street
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California ELAP Certificate #1371

City of Lodi

Project: Drinking Water- EDT

Attn: SWTF P.O. Box 3006
Lodi CA, 95241

Project Number: Drinking Water
Project Manager: Andrew Richle

Reported:
08/06/2015

Moore Twining Associates, Inc.

Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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California ELAP Certificate #1371

City of Lodi
 Attn: SWTF P.O. Box 3006
 Lodi CA, 95241

Project: Drinking Water- EDT
 Project Number: Drinking Water
 Project Manager: Andrew Richle

Reported:
 08/06/2015

Analytical Report for Work Order BG23025

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
J27 Sampled: 07/21/15 05:47 BG23025-01 (Drinking Water)									
Copper		100	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J28 Sampled: 07/21/15 06:25 BG23025-02 (Drinking Water)									
Copper		90	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J31 Sampled: 07/22/15 04:00 BG23025-03 (Drinking Water)									
Copper		44	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J34 Sampled: 07/22/15 06:49 BG23025-04 (Drinking Water)									
Copper		130	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J40 Sampled: 07/22/15 05:58 BG23025-05 (Drinking Water)									
Copper		190	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J41 Sampled: 07/21/15 22:01 BG23025-06 (Drinking Water)									
Copper		350	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J43 Sampled: 07/22/15 08:00 BG23025-07 (Drinking Water)									
Copper		40	2.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2705	07/27/15	07/28/15	EPA 200.8
J75 Sampled: 07/22/15 04:50 BG23025-08 (Drinking Water)									
Copper		38	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
J25 Sampled: 07/23/15 04:30 BG23025-09 (Drinking Water)									
Copper		170	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
J32 Sampled: 07/23/15 06:19 BG23025-10 (Drinking Water)									
Copper		190	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
J9 Sampled: 07/23/15 07:15 BG23025-11 (Drinking Water)									
Copper		300	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8
J20 Sampled: 07/23/15 06:00 BG23025-12 (Drinking Water)									

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

City of Lodi
 Attn: SWTF P.O. Box 3006
 Lodi CA, 95241

Project: Drinking Water- EDT
 Project Number: Drinking Water
 Project Manager: Andrew Richle

Reported:
 08/06/2015

Analytical Report for Work Order BG23025

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
J20							Sampled: 07/23/15 06:00 BG23025-12 (Drinking Water)			
Copper		180	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
J54							Sampled: 07/23/15 07:10 BG23025-13 (Drinking Water)			
Copper		88	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
J19							Sampled: 07/23/15 06:14 BG23025-14 (Drinking Water)			
Copper		230	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
Lead		1.0	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
J56							Sampled: 07/23/15 06:00 BG23025-15 (Drinking Water)			
Copper		51	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
Lead		2.2	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
J5							Sampled: 07/23/15 08:00 BG23025-16 (Drinking Water)			
Copper		59	2.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2904	07/29/15	07/30/15	EPA 200.8	
J6							Sampled: 07/22/15 07:30 BG23025-17 (Drinking Water)			
Copper		220	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J7							Sampled: 07/23/15 07:55 BG23025-18 (Drinking Water)			
Copper		270	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J3							Sampled: 07/23/15 06:00 BG23025-19 (Drinking Water)			
Copper		170	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J15							Sampled: 07/23/15 06:50 BG23025-20 (Drinking Water)			
Copper		270	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J92							Sampled: 07/22/15 06:25 BG23025-21 (Drinking Water)			
Copper		37	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J91							Sampled: 07/22/15 06:30 BG23025-22 (Drinking Water)			
Copper		21	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J94							Sampled: 07/22/15 05:15 BG23025-23 (Drinking Water)			

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

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California ELAP Certificate #1371

City of Lodi
 Attn: SWTF P.O. Box 3006
 Lodi CA, 95241

Project: Drinking Water- EDT
 Project Number: Drinking Water
 Project Manager: Andrew Richle

Reported:
 08/06/2015

Analytical Report for Work Order BG23025

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
J94							Sampled: 07/22/15 05:15 BG23025-23 (Drinking Water)			
Copper		39	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J97							Sampled: 07/21/15 06:03 BG23025-24 (Drinking Water)			
Copper		15	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J89							Sampled: 07/22/15 07:15 BG23025-25 (Drinking Water)			
Copper		20	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J86							Sampled: 07/22/15 08:04 BG23025-26 (Drinking Water)			
Copper		20	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J85							Sampled: 07/21/15 07:15 BG23025-27 (Drinking Water)			
Copper		28	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		1.2	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J83							Sampled: 07/22/15 05:15 BG23025-28 (Drinking Water)			
Copper		43	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J80							Sampled: 07/21/15 04:45 BG23025-29 (Drinking Water)			
Copper		67	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J98							Sampled: 07/21/15 05:37 BG23025-30 (Drinking Water)			
Copper		33	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J55							Sampled: 07/23/15 07:00 BG23025-31 (Drinking Water)			
Copper		47	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J45							Sampled: 07/23/15 07:22 BG23025-32 (Drinking Water)			
Copper		190	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J81							Sampled: 07/23/15 05:47 BG23025-33 (Drinking Water)			
Copper		190	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8	
J51							Sampled: 07/22/15 18:21 BG23025-34 (Drinking Water)			

Moore Twining Associates, Inc.
 Juliane Adams, Director of Analytical Chemistry

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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California ELAP Certificate #1371

City of Lodi
 Attn: SWTF P.O. Box 3006
 Lodi CA, 95241

Project: Drinking Water- EDT
 Project Number: Drinking Water
 Project Manager: Andrew Richle

Reported:
 08/06/2015

Analytical Report for Work Order BG23025

Analyte	Qual.	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
					Sampled: 07/22/15 18:21 BG23025-34 (Drinking Water)				
J51									
Copper		71	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
					Sampled: 07/23/15 07:10 BG23025-35 (Drinking Water)				
J47									
Copper		110	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
					Sampled: 07/23/15 06:01 BG23025-36 (Drinking Water)				
J49									
Copper		27	2.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
Lead		1.1	1.0	µg/L	1	U5G2911	07/29/15	07/30/15	EPA 200.8
					Sampled: 07/22/15 16:15 BG23025-37 (Drinking Water)				
J84									
Copper		130	2.5	µg/L	1	U5H0301	08/04/15	08/04/15	EPA 200.8
Lead		ND	1.0	µg/L	1	U5H0301	08/04/15	08/04/15	EPA 200.8
					Sampled: 07/22/15 07:30 BG23025-38 (Drinking Water)				
J79									
Copper		270	2.5	µg/L	1	U5H0301	08/04/15	08/04/15	EPA 200.8
Lead		1.1	1.0	µg/L	1	U5H0301	08/04/15	08/04/15	EPA 200.8

Notes and Definitions

- ug/L micrograms per liter (parts per billion concentration units)
 - mg/L milligrams per liter (parts per million concentration units)
 - mg/kg milligrams per kilogram (parts per million concentration units)
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- Analysis of pH, filtration, and residual chlorine is to take place immediately after sampling in the field.
 If the test was performed in the laboratory, the hold time was exceeded (for aqueous matrices only)



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Reported:
 08/06/2015

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch U5G2705

Blank (U5G2705-BLK1)

Prepared: 07/27/15 Analyzed: 07/28/15

Copper		ND	2.0	µg/L						
Lead		ND	1.0	"						

LCS (U5G2705-BS1)

Prepared: 07/27/15 Analyzed: 07/28/15

Lead		47.0	1.0	µg/L	50.0		94.0	85-115		20
Copper		50.3	2.0	"	50.0		101	85-115		20

LCS Dup (U5G2705-BSD1)

Prepared: 07/27/15 Analyzed: 07/28/15

Lead		48.2	1.0	µg/L	50.0		96.4	85-115	2.54	20
Copper		48.1	2.0	"	50.0		96.2	85-115	4.37	20

Matrix Spike (U5G2705-MS1)

Source: BG20050-01

Prepared: 07/27/15 Analyzed: 07/28/15

Copper		49	2.0	µg/L	50.0	3.1	92.4	70-130		20
Lead		51	1.0	"	50.0	3.5	95.9	70-130		20

Matrix Spike (U5G2705-MS2)

Source: BG21010-03

Prepared: 07/27/15 Analyzed: 07/28/15

Copper		47	2.0	µg/L	50.0	3.2	88.1	70-130		20
Lead		48	1.0	"	50.0	0.11	94.8	70-130		20

Matrix Spike Dup (U5G2705-MSD1)

Source: BG20050-01

Prepared: 07/27/15 Analyzed: 07/28/15

Copper		48	2.0	µg/L	50.0	3.1	89.7	70-130	2.77	20
Lead		51	1.0	"	50.0	3.5	95.0	70-130	0.927	20

Matrix Spike Dup (U5G2705-MSD2)

Source: BG21010-03

Prepared: 07/27/15 Analyzed: 07/28/15

Copper		47	2.0	µg/L	50.0	3.2	88.1	70-130	0.0654	20
Lead		48	1.0	"	50.0	0.11	94.9	70-130	0.0691	20



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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch U5G2904

Blank (U5G2904-BLK1)

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		ND	2.0	µg/L						
Lead		ND	1.0	"						

LCS (U5G2904-BS1)

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		49.0	1.0	µg/L	50.0		98.1	85-115		20
Copper		51.1	2.0	"	50.0		102	85-115		20

LCS Dup (U5G2904-BSD1)

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		49.2	1.0	µg/L	50.0		98.4	85-115	0.366	20
Copper		51.8	2.0	"	50.0		104	85-115	1.25	20

Matrix Spike (U5G2904-MS1)

Source: BG27062-01

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		57	2.0	µg/L	50.0	9.6	94.2	70-130		20
Lead		49	1.0	"	50.0	1.2	95.7	70-130		20

Matrix Spike (U5G2904-MS2)

Source: BG28020-02

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		47	1.0	µg/L	50.0	0.29	94.0	70-130		20
Copper		55	2.0	"	50.0	6.3	96.4	70-130		20

Matrix Spike Dup (U5G2904-MSD1)

Source: BG27062-01

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		57	2.0	µg/L	50.0	9.6	94.6	70-130	0.317	20
Lead		49	1.0	"	50.0	1.2	96.4	70-130	0.714	20

Matrix Spike Dup (U5G2904-MSD2)

Source: BG28020-02

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		47	1.0	µg/L	50.0	0.29	93.8	70-130	0.225	20
Copper		54	2.0	"	50.0	6.3	96.2	70-130	0.179	20



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Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	%REC Limits	RPD	RPD Limit
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Batch U5G2911

Blank (U5G2911-BLK1)

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		ND	2.0	µg/L						
Lead		ND	1.0	"						

LCS (U5G2911-BS1)

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		52.0	2.0	µg/L	50.0		104	85-115		20
Lead		49.2	1.0	"	50.0		98.3	85-115		20

LCS Dup (U5G2911-BSD1)

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		49.0	1.0	µg/L	50.0		98.0	85-115	0.325	20
Copper		52.6	2.0	"	50.0		105	85-115	1.06	20

Matrix Spike (U5G2911-MS1)

Source: BG23025-17

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		260	2.0	µg/L	50.0	220	91.3	70-130		20
Lead		49	1.0	"	50.0	ND	97.4	70-130		20

Matrix Spike (U5G2911-MS2)

Source: BG23025-27

Prepared: 07/29/15 Analyzed: 07/30/15

Copper		78	2.0	µg/L	50.0	28	101	70-130		20
Lead		50	1.0	"	50.0	1.2	96.8	70-130		20

Matrix Spike Dup (U5G2911-MSD1)

Source: BG23025-17

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		48	2.0	µg/L	50.0	ND	96.9	70-130	0.484	20
Copper		260	2.0	"	50.0	220	91.9	70-130	0.113	20

Matrix Spike Dup (U5G2911-MSD2)

Source: BG23025-27

Prepared: 07/29/15 Analyzed: 07/30/15

Lead		50	1.0	µg/L	50.0	1.2	98.3	70-130	1.45	20
Copper		81	2.0	"	50.0	28	106	70-130	2.97	20



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Reported:
 08/06/2015

Metals - Totals - Quality Control

Analyte	Notes	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch U5H0301

Blank (U5H0301-BLK1)

Prepared & Analyzed: 08/04/15

Copper		ND	2.0	µg/L						
Lead		ND	1.0	"						

LCS (U5H0301-BS1)

Prepared & Analyzed: 08/04/15

Lead		48.0	1.0	µg/L	50.0		96.1	85-115		20
Copper		50.7	2.0	"	50.0		101	85-115		20

LCS Dup (U5H0301-BSD1)

Prepared & Analyzed: 08/04/15

Copper		50.5	2.0	µg/L	50.0		101	85-115	0.234	20
Lead		47.9	1.0	"	50.0		95.8	85-115	0.278	20

Matrix Spike (U5H0301-MS1)

Source: BG29037-01

Prepared & Analyzed: 08/04/15

Lead		46	1.0	µg/L	50.0	0.39	90.9	70-130		20
Copper		49	2.0	"	50.0	1.5	94.5	70-130		20

Matrix Spike (U5H0301-MS2)

Source: BG30005-01

Prepared & Analyzed: 08/04/15

Copper		58	2.0	µg/L	50.0	9.7	97.3	70-130		20
Lead		46	1.0	"	50.0	0.11	91.4	70-130		20

Matrix Spike Dup (U5H0301-MSD1)

Source: BG29037-01

Prepared & Analyzed: 08/04/15

Copper		49	2.0	µg/L	50.0	1.5	95.6	70-130	1.09	20
Lead		46	1.0	"	50.0	0.39	91.7	70-130	0.893	20

Matrix Spike Dup (U5H0301-MSD2)

Source: BG30005-01

Prepared & Analyzed: 08/04/15

Copper		58	2.0	µg/L	50.0	9.7	97.3	70-130	0.00	20
Lead		46	1.0	"	50.0	0.11	91.4	70-130	0.00	20