



Administration Building

923 E. Kearsley Street | Flint, Michigan | 48503

Introduction

On Saturday, December 11, 2015, the Department of Licensing and Regulatory Affairs (DLARA) and the Department of Environmental Quality (DEQ), collectively (Team), conducted a sampling assessment of the plumbing system at the Administration Building to determine any potential lead and/or copper sources within the building.

The Team is in the process of replacing all drinking water fixtures in the building. Once replacements are completed, the Team will return and conduct an additional sampling assessment on the new fixtures.

The results of the December 11, 2015, sampling assessments are found below:

Water Service Information

An inspection of the water main from inside the building yielded a four-inch diameter cast iron or ductile iron water service line entering into the boiler room.

Fixtures with Lead Levels Greater Than 15 Parts per Billion

Based on the sampling conducted, the following fixtures were found to have lead water level results greater than 15 parts per billion (ppb).¹

Location: Drinking Water Bubbler on the Lower Level in the Hallway Next to Women’s Employee Restroom, (01DW004)

Results: P1=18 parts per billion, P2=9 parts per billion F01=3 parts per billion, F02=2 parts per billion

Location: Drinking Water Bubbler on the First Floor in the Hallway Next to Mechanical Room 111, (02DW007)

Results: P1=30 parts per billion, P2=15 parts per billion F01=14 parts per billion, F02=4 parts per billion

Location: Drinking Water Bubbler on the Second Floor in the Hallway Next to Room 207, (03DW011)

Results: P1=19 parts per billion, P2=4 parts per billion F01=3 parts per billion, F02=2 parts per billion

¹ After a 12-hour stagnation period, the Team collected four (4) samples at each of the fixtures identified. Two (2) initial, 125-mililiter samples (P1 and P2), were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third, 125-mililiter sample (F01) was collected. Finally, the water was flushed for another two minutes, and the fourth 125-mililiter sample (F02) was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.



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Consecutive Sampling Results

This consecutive sampling was used to determine the impact of any lead sources located deep in the supply plumbing of the building. Results of the consecutive sample monitoring are listed in the table below. The samples found to have lead water level results greater than 15 parts per billion (ppb) are shown below in red.

Consecutive Sample No.	1	2	3	4	5	6	7	8	9	10
LOCATION	LEAD RESULT (PARTS PER BILLION; ND = NOT-DETECTED)									
Room 119 Kitchen Faucet (02KC006)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Employee Lounge Kitchen Faucet (01KC001)	1	ND								
Women's Restroom Bathroom Faucet (03BF012)	24	5	3	3	3	2	2	2	2	2

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Analysis (Pb)	Result (mg/L)	Analysis (Cu)	Result (mg/L)	Sample Description	Site Code	Site Description
Lead	0.004	Copper	0.09	01KC005 - RM 3	P1	First Primary draw of 125 milliliters
Lead	0.004	Copper	0.05	01KC005 - RM 3	P2	Second Primary draw of 125 milliliters
Lead	0.002	Copper	0.00	01KC005 - RM 3	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.00	01KC005 - RM 3	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.005	Copper	0.08	03DW010 - NEXT TO FAN RM 212	P1	First Primary draw of 125 milliliters
Lead	0.003	Copper	0.07	03DW010 - NEXT TO FAN RM 212	P2	Second Primary draw of 125 milliliters
Lead	0.002	Copper	0.07	03DW010 - NEXT TO FAN RM 212	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.003	Copper	0.08	03DW010 - NEXT TO FAN RM 212	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.003	Copper	0.07	02DW009 - NEXT TO CONFERENCE RM	P1	First Primary draw of 125 milliliters
Lead	0.000	Copper	0.00	02DW009 - NEXT TO CONFERENCE RM	P2	Second Primary draw of 125 milliliters
Lead	0.001	Copper	0.00	02DW009 - NEXT TO CONFERENCE RM	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.00	02DW009 - NEXT TO CONFERENCE RM	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.000	Copper	0.44	02WC008 - NEXT TO WOMENS R/R	P1	First Primary draw of 125 milliliters
Lead	0.000	Copper	0.43	02WC008 - NEXT TO WOMENS R/R	P2	Second Primary draw of 125 milliliters
Lead	0.001	Copper	0.22	02WC008 - NEXT TO WOMENS R/R	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.07	02WC008 - NEXT TO WOMENS R/R	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.019	Copper	0.08	03DW011 NEXT TO RM 207	P1	First Primary draw of 125 milliliters
Lead	0.004	Copper	0.08	03DW011 NEXT TO RM 207	P2	Second Primary draw of 125 milliliters
Lead	0.003	Copper	0.05	03DW011 NEXT TO RM 207	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.002	Copper	0.00	03DW011 NEXT TO RM 207	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.018	Copper	0.14	01DW004 HALLWAY NEXT TO WOMEN EMPL R/R	P1	First Primary draw of 125 milliliters
Lead	0.009	Copper	0.06	01DW004 HALLWAY NEXT TO WOMEN EMPL R/R	P2	Second Primary draw of 125 milliliters
Lead	0.003	Copper	0.00	01DW004 HALLWAY NEXT TO WOMEN EMPL R/R	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.002	Copper	0.00	01DW004 HALLWAY NEXT TO WOMEN EMPL R/R	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.030	Copper	0.15	02DW007 NEXT TO MECH RM 111	P1	First Primary draw of 125 milliliters
Lead	0.015	Copper	0.09	02DW007 NEXT TO MECH RM 111	P2	Second Primary draw of 125 milliliters
Lead	0.014	Copper	0.09	02DW007 NEXT TO MECH RM 111	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.004	Copper	0.08	02DW007 NEXT MECH RM 111	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.003	Copper	0.17	01KC001 EMPLOYEE LOUNGE	P1	First Primary draw of 125 milliliters
Lead	0.015	Copper	0.27	01KC001 EMPLOYEE LOUNGE	P2	Second Primary draw of 125 milliliters
Lead	0.003	Copper	0.17	01KC001 EMPLOYEE LOUNGE	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.09	01KC001 EMPLOYEE LOUNGE	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.002	Copper	0.13	01KC002 OFF EMPLOYEE LOUNGE RM 10A	P1	First Primary draw of 125 milliliters
Lead	0.000	Copper	0.12	01KC002 OFF EMPLOYEE LOUNGE RM 10A	P2	Second Primary draw of 125 milliliters
Lead	0.000	Copper	0.00	01KC002 OFF EMPLOYEE LOUNGE RM 10A	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.00	01KC002 OFF EMPLOYEE LOUNGE RM 10A	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.001	Copper	0.09	02KC006 RM 119	P1	First Primary draw of 125 milliliters
Lead	0.000	Copper	0.05	02KC006 RM 119	P2	Second Primary draw of 125 milliliters
Lead	0.000	Copper	0.00	02KC006 RM 119	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.000	Copper	0.00	02KC006 RM 119	F02	Flush Sample taken 2 minutes after First Flush Sample
Lead	0.009	Copper	0.06	01DW003 HALLWAY NEXT TO RM 8	P1	First Primary draw of 125 milliliters
Lead	0.003	Copper	0.00	01DW003 HALLWAY NEXT TO RM 8	P2	Second Primary draw of 125 milliliters
Lead	0.000	Copper	0.00	01DW003 HALLWAY NEXT TO RM 8	F01	Flush Sample taken 30 Seconds after Second Primary Draw
Lead	0.003	Copper	0.08	01DW003 HALLWAY NEXT TO RM 8	F02	Flush Sample taken 2 minutes after First Flush Sample

Note: Results of "Not Detected" have been converted to a numerical value of zero to allow for ease of sorting.
Results in RED exceed 15 ppb for lead or 1.3 ppm for Copper
1 ppb = 0.001 mg/L

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Lead	0.000	Copper	0.00	02KC006-RM 119	CA1	First Sequential Sample
Lead	0.000	Copper	0.00	02KC006-RM 119	CA2	Second Sequential Sample
Lead	0.000	Copper	0.00	02KC006-RM 119	CA3	Third Sequential Sample
Lead	0.000	Copper	0.00	02KC006-RM 119	CA4	Forth Sequential Sample
Lead	0.000	Copper	0.00	02KC006- RM 119	CA5	Fifth Sequential Sample
Lead	0.000	Copper	0.00	02KC006-RM 119	CA6	Sixth Sequential Sample
Lead	0.000	Copper	0.00	02KC006- RM 119	CA7	Seventh Sequential Sample
Lead	0.000	Copper	0.00	02KC006- RM 119	CA8	Eigth Sequential Sample
Lead	0.000	Copper	0.00	02KC006-RM 119	CA9	Ninth Sequential Sample
Lead	0.000	Copper	0.00	02KC006- RM 119	CA10	Tenth Sequential Sample
Lead	0.001	Copper	0.15	01KC001-EMPLOYEE LOUNGE	CB1	First Sequential Sample
Lead	0.000	Copper	0.10	01KC001-EMPLOYEE LOUNGE	CB2	Second Sequential Sample
Lead	0.000	Copper	0.07	01KC001-EMPLOYEE LOUNGE	CB3	Third Sequential Sample
Lead	0.000	Copper	0.06	01KC001-EMPLOYEE LOUNGE	CB4	Forth Sequential Sample
Lead	0.000	Copper	0.06	01KC001-EMPLOYEE LOUNGE	CB5	Fifth Sequential Sample
Lead	0.000	Copper	0.06	01KC001-EMPLOYEE LOUNGE	CB6	Sixth Sequential Sample
Lead	0.000	Copper	0.05	01KC001-EMPLOYEE LOUNGE	CB7	Seventh Sequential Sample
Lead	0.000	Copper	0.05	01KC001-EMPLOYEE LOUNGE	CB8	Eigth Sequential Sample
Lead	0.000	Copper	0.05	01KC001-EMPLOYEE LOUNGE	CB9	Ninth Sequential Sample
Lead	0.000	Copper	0.05	01KC001-EMPLOYEE LOUNGE	CB10	Tenth Sequential Sample
Lead	0.024	Copper	0.08	03BF012-WOMENS R/R	CC1	First Sequential Sample
Lead	0.005	Copper	0.00	03BF012- WOMENS R/R	CC2	Second Sequential Sample
Lead	0.003	Copper	0.00	03BF012-WOMENS R/R	CC3	Third Sequential Sample
Lead	0.003	Copper	0.00	03BF012-WOMENS R/R	CC4	Forth Sequential Sample
Lead	0.003	Copper	0.00	03BF012-WOMENS R/R	CC5	Fifth Sequential Sample
Lead	0.002	Copper	0.00	03BF012-WOMENS R/R	CC6	Sixth Sequential Sample
Lead	0.002	Copper	0.00	03BF012-WOMENS R/R	CC7	Seventh Sequential Sample
Lead	0.002	Copper	0.00	03BF012-WOMENS R/R	CC8	Eigth Sequential Sample
Lead	0.002	Copper	0.00	03BF012-WOMENS R/R	CC9	Ninth Sequential Sample
Lead	0.002	Copper	0.00	03BF012-WOMENS R/R	CC10	Tenth Sequential Sample

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