

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Transition Living Program



August 30, 2016

INTRODUCTION

During the month of April, 2016, the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at the Transition Living Program facility. These fixture replacements were required because testing results indicated that the older fixtures at most schools were imparting lead to the drinking water. After the fixtures were replaced, a more thorough flushing of the plumbing lines was completed to remove any remaining material from the building's water supply system.

On Saturday, July 16, 2016, the Department of Environmental Quality conducted a post-fixture sampling assessment of the plumbing system at the facility.

Water Main Description

An inspection from inside the building yielded a three-fourth inch galvanized pipe to the meter, and a three-fourth inch copper line after the meter to the facility distribution system.

SAMPLING METHODS

Fixture Sampling

There are six drinking water fixtures that were identified at the facility. After a minimum six-hour stagnation period, four samples were collected at each of the fixtures identified. Two initial samples were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third sample was collected. Finally, the water was flushed for another two minutes, and the fourth sample was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.

Deep Plumbing Sampling

A different sampling method is used to determine the impact of any lead sources located deep in the supply plumbing of the building. During this method, ten bottles are collected in a row (consecutively). These bottles are one liter in size, which is larger than those used for the fixture sampling method.

Sampling Notes

- The standard 'Fixture Sampling Method' with a minimum six-hour stagnation period was not possible for this facility due to the residents' consistent water use needs. Sampling is representative of usual water use at the facility.
- Six fixtures, 24 samples, were collected and sent to the lab for analysis.
- Two fixtures were selected to test the deeper part of the plumbing system. For this method twenty samples were collected and sent to the lab for analysis.

SAMPLING RESULTS

Post-Fixture Replacement

July 16, 2016
Of the 44 samples:

- Lead Range: Non-Detected (ND) to 2 parts per billion (ppb)
- Copper Range: ND to 290 ppb

* Where the result is non-detected for lead it means that the amount of lead in the water was less than 1 ppb.

* Where the result is non-detected for copper it means that the amount of copper in the water was less than 50 ppb.

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Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	01BF001 HALF BATH SOUTH	P1	Copper	120
Lead	1	01BF001 HALF BATH SOUTH	P2	Copper	60
Lead	2	01BF001 HALF BATH SOUTH	F01	Copper	ND
Lead	ND	01BF001 HALF BATH SOUTH	F02	Copper	ND
Lead	ND	01KC002 KITCHEN SINK	P1	Copper	150
Lead	ND	01KC002 KITCHEN SINK	P2	Copper	70
Lead	ND	01KC002 KITCHEN SINK	F01	Copper	170
Lead	ND	01KC002 KITCHEN SINK	F02	Copper	100
Lead	ND	02BF003 2ND FLOOR BATH SOUTH	P1	Copper	120
Lead	ND	02BF003 2ND FLOOR BATH SOUTH	P2	Copper	290
Lead	ND	02BF003 2ND FLOOR BATH SOUTH	F01	Copper	ND
Lead	1	02BF003 2ND FLOOR BATH SOUTH	F02	Copper	ND
Lead	ND	01BF004 HALF BATH NORTH	P1	Copper	120
Lead	2	01BF004 HALF BATH NORTH	P2	Copper	ND
Lead	1	01BF004 HALF BATH NORTH	F01	Copper	70
Lead	ND	01BF004 HALF BATH NORTH	F02	Copper	70
Lead	ND	01KC005 KITCHEN NORTH	P1	Copper	140
Lead	2	01KC005 KITCHEN NORTH	P2	Copper	90
Lead	2	01KC005 KITCHEN NORTH	F01	Copper	260
Lead	ND	01KC005 KITCHEN NORTH	F02	Copper	90
Lead	2	02BF006 2ND FLOOR NORTH BATH	P1	Copper	110
Lead	2	02BF006 2ND FLOOR NORTH BATH	P2	Copper	110
Lead	1	02BF006 2ND FLOOR NORTH BATH	F01	Copper	80
Lead	1	02BF006 2ND FLOOR NORTH BATH	F02	Copper	70
Lead	ND	01KC002 KITCHEN SINK	CA1	Copper	100
Lead	ND	01KC002 KITCHEN SINK	CA2	Copper	80
Lead	ND	01KC002 KITCHEN SINK	CA3	Copper	70
Lead	ND	01KC002 KITCHEN SINK	CA4	Copper	70
Lead	ND	01KC002 KITCHEN SINK	CA5	Copper	60
Lead	ND	01KC002 KITCHEN SINK	CA6	Copper	60
Lead	ND	01KC002 KITCHEN SINK	CA7	Copper	ND
Lead	ND	01KC002 KITCHEN SINK	CA8	Copper	ND
Lead	ND	01KC002 KITCHEN SINK	CA9	Copper	ND
Lead	ND	01KC002 KITCHEN SINK	CA10	Copper	ND
Lead	1	01KC005 KITCHEN NORTH	CB1	Copper	110
Lead	1	01KC005 KITCHEN NORTH	CB2	Copper	110
Lead	1	01KC005 KITCHEN NORTH	CB3	Copper	100
Lead	1	01KC005 KITCHEN NORTH	CB4	Copper	100
Lead	1	01KC005 KITCHEN NORTH	CB5	Copper	90
Lead	1	01KC005 KITCHEN NORTH	CB6	Copper	70
Lead	1	01KC005 KITCHEN NORTH	CB7	Copper	60
Lead	ND	01KC005 KITCHEN NORTH	CB8	Copper	ND
Lead	ND	01KC005 KITCHEN NORTH	CB9	Copper	ND
Lead	ND	01KC005 KITCHEN NORTH	CB10	Copper	ND

The result of non-detected (ND) means; for lead the amount in water is less than 1 ppb, for copper the amount in water is less than 50 ppb.