

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Harmony Manor -- Avon



August 17, 2016

INTRODUCTION

During the month of April, 2016 the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at Harmony Manor -- Avon. 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, June 4, 2016, the Department of Environmental Quality conducted a post-fixture sampling assessment of the plumbing system at the facility.

Water Main Description

Inspection from the interior of the facility yielded a three quarter inch galvanized water main. The distribution system throughout the building was three quarter inch galvanized and copper piping.

SAMPLING METHODS

Fixture Sampling

There are four 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' of 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.

- Four fixtures, 16 samples were collected and sent to the lab for analysis.
- One fixture was selected to test the deeper part of the plumbing system. For this method ten samples were collected and sent to the lab for analysis.

SAMPLING RESULTS

Post-Fixture Replacement

June 4, 2016
Of the 26 samples:

- Lead Range: All samples were Non-Detected (ND)
- Copper Range: ND to 130 parts per billion (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	Lead Result (ppb)	Sample_Description	Site Code	Copper	Copper Result (ppb)
Lead	ND	01BF001 BATH BY KITCHEN	P1	Copper	80
Lead	ND	01BF001 BATH BY KITCHEN	P2	Copper	ND
Lead	ND	01BF001 BATH BY KITCHEN	F01	Copper	ND
Lead	ND	01BF001 BATH BY KITCHEN	F02	Copper	ND
Lead	ND	01KC002 KITCHEN	P1	Copper	130
Lead	ND	01KC002 KITCHEN	P2	Copper	80
Lead	ND	01KC002 KITCHEN	F01	Copper	ND
Lead	ND	01KC002 KITCHEN	F02	Copper	ND
Lead	ND	01BF003 OTHER MAIN FLOOR BATH	P1	Copper	110
Lead	ND	01BF003 OTHER MAIN FLOOR BATH	P2	Copper	100
Lead	ND	01BF003 OTHER MAIN FLOOR BATH	F01	Copper	ND
Lead	ND	01BF003 OTHER MAIN FLOOR BATH	F02	Copper	ND
Lead	ND	02BF004 2ND FLOOR BATH	P1	Copper	60
Lead	ND	02BF004 2ND FLOOR BATH	P2	Copper	ND
Lead	ND	02BF004 2ND FLOOR BATH	F01	Copper	ND
Lead	ND	02BF004 2ND FLOOR BATH	F02	Copper	ND
Lead	ND	01KC002 KITCHEN	CA1	Copper	ND
Lead	ND	01KC002 KITCHEN	CA2	Copper	ND
Lead	ND	01KC002 KITCHEN	CA3	Copper	ND
Lead	ND	01KC002 KITCHEN	CA4	Copper	ND
Lead	ND	01KC002 KITCHEN	CA5	Copper	ND
Lead	ND	01KC002 KITCHEN	CA6	Copper	ND
Lead	ND	01KC002 KITCHEN	CA7	Copper	ND
Lead	ND	01KC002 KITCHEN	CA8	Copper	ND
Lead	ND	01KC002 KITCHEN	CA9	Copper	ND
Lead	ND	01KC002 KITCHEN	CA10	Copper	ND

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