

# POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Harmony Manor, Court Street



August 17, 2016

## INTRODUCTION

On April 27, 2016, the Department of Licensing and Regulatory Affairs completed replacement of drinking water fixtures at Harmony Manor on Court Street. 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.

## 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.

- Three fixtures were selected to test the deeper part of the plumbing system. For this method thirty samples were collected and sent to the lab for analysis.

## SAMPLING RESULTS

### Post-Fixture Replacement

June 4, 2016  
Of the 54 samples:

- Lead Range: Non-Detected (ND) to 2 parts per billion (ppb)
- Copper Range: ND to 110 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.

Harmony Manor, Court Street

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Lead	Lead Result (ppb)	Sample_Description	Site Code	Copper	Copper Result (ppb)
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	P1	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	P2	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	F01	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	F02	Copper	ND
Lead	ND	02KF002	P1	Copper	60
Lead	2	02KF002	P2	Copper	110
Lead	ND	02KF002	F01	Copper	ND
Lead	ND	02KF002	F02	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	P1	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	P2	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	F01	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	F02	Copper	ND
Lead	ND	01BF004	P1	Copper	80
Lead	ND	01BF004	P2	Copper	ND
Lead	ND	01BF004	F01	Copper	ND
Lead	ND	01BF004	F02	Copper	ND
Lead	ND	01BF005	P1	Copper	ND
Lead	ND	01BF005	P2	Copper	ND
Lead	ND	01BF005	F01	Copper	ND
Lead	ND	01BF005	F02	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	P1	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	P2	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	F01	Copper	ND
Lead	ND	02BF006 2ND FLOOR BATH	F02	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA1	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA2	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA3	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA4	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA5	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA6	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA7	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA8	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA9	Copper	ND
Lead	ND	01BF001 BATH BY STAIRS MAIN FL	CA10	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB1	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB2	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB3	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB4	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB5	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB6	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB7	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB8	Copper	ND
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB9	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.

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June 4, 2016

Lead	Lead Result (ppb)	Sample_Description	Site Code	Copper	Copper Result (ppb)
Lead	ND	01KF003 KITCHEN SINK MAIN FL	CB10	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC1	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC2	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC3	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC4	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC5	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC6	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC7	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC8	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC9	Copper	ND
Lead	ND	02BF006 2ND FL BATH	CC10	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.