

POST-FIXTURE REPLACEMENT SAMPLING RESULTS REPORT

Just for Kids Daycare



September 22, 2016

INTRODUCTION

During the month of April 2016, the Department of Licensing and Regulatory Affairs (DLARA) completed replacement of drinking water fixtures at Just for Kids Daycare. 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.

For the protection of public health, DLARA started offering the installation of filters at schools and daycare facilities. This work began in July, 2016.

On Wednesday, July 27th, 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 one inch copper main, a brass body gate valve and galvanized lines throughout the building's distribution system.

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

- Sixteen samples from four fixtures were collected and sent to the lab for analysis.
- Ten samples from one specific fixture were collected and sent to the lab for analysis for deeper plumbing assessment.

SAMPLING RESULTS

Post-Fixture Replacement

July 27, 2016

Of the 26 samples:

- Lead Range: Non-Detected (ND) to 19 parts per billion (ppb)
- Copper Range: ND to 130 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.

Just For Kids Group Home
July 27, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	15	01BF001	P1	Copper	130
Lead	19	01BF001	P2	Copper	ND
Lead	7	01BF001	F01	Copper	ND
Lead	1	01BF001	F02	Copper	ND
Lead	ND	02BF002	P1	Copper	70
Lead	ND	02BF002	P2	Copper	ND
Lead	1	02BF002	F01	Copper	ND
Lead	1	02BF002	F02	Copper	ND
Lead	5	01KC003	P1	Copper	50
Lead	10	01KC003	P2	Copper	ND
Lead	2	01KC003	F01	Copper	ND
Lead	1	01KC003	F02	Copper	ND
Lead	ND	02KC004	P1	Copper	ND
Lead	ND	02KC004	P2	Copper	ND
Lead	2	02KC004	F01	Copper	ND
Lead	2	02KC004	F02	Copper	ND
Lead	2	01KC003	CA1	Copper	ND
Lead	1	01KC003	CA2	Copper	ND
Lead	1	01KC003	CA3	Copper	ND
Lead	1	01KC003	CA4	Copper	ND
Lead	1	01KC003	CA5	Copper	ND
Lead	1	01KC003	CA6	Copper	ND
Lead	1	01KC003	CA7	Copper	ND
Lead	1	01KC003	CA8	Copper	ND
Lead	1	01KC003	CA9	Copper	ND
Lead	1	01KC003	CA10	Copper	ND

Non-detected (ND) means; for lead the amount in water is less than 1 pbb,
and for copper the amount in water is less than 50 pbb.