

EXECUTIVE SUMMARY:

The South Plainfield Township Board of Education requested lead in water testing of potable water outlets at Riley Elementary School, 100 Morris Avenue, South Plainfield, NJ 07080.

Previous Testing

No information related to previous testing was available.

Recent Testing (11/11/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on November 11, 2016.

Reportedly the outlets were not flushed or used on the day of testing.

First draw and flush samples (30 second) were collected of 20 water fountains and sinks.

All results were below the Lead and Copper action level of 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Sample #	Location	1 st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	Kitchen Faucet	FD	<1.0	15
2	Drinking Water at Stage (L)	FD	<1.0	15
3	Drinking Water at Stage (R)	FD	1.2	15
4	Water Cooler at Room 22	FD	<1.0	15
5	Drinking Water at Room 16 (L)	FD	<1.0	15
6	Drinking Water	FD	1.1	15
7	Drinking Water at Room 24 (L)	FD	<1.0	15
8	Drinking Water at Room 24 (R)	FD	2.1	15
9	Nurse's Office Sink	FD	<1.0	15
10	Nurse's Lavatory Sink	FD	<1.0	15
11	Water Cooler at Main Entrance	FD	<1.0	15
12	Drinking Water Room 1	FD	<1.0	15
13	Lavatory Sink Main Office	FD	1.5	15
14	Drinking Water Room 8	FD	<1.0	15
15	Drinking Water Room 2	FD	<1.0	15
16	Drinking Water Room 3	FD	<1.0	15
17	Drinking Water Room 4	FD	<1.0	15
18	Drinking Water Room 5	FD	<1.0	15
19	Drinking Water Room 6	FD	<1.0	15
20	Drinking Water Room 7A	FD	<1.0	15
21	Field Blank	Field Blank	<1.0	15

⁽¹⁾ EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.

FD – First Draw Sample

FL – Flush Sample (30 sec)

NA – Not Analyzed

2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO₃) as a preservative.

Flush Samples – After collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to Pace Analytical, Melville, NY for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

All lead in water results were below the EPA Lead and Copper action level of 15 ppb. No analysis was performed for copper in water.

4 RECOMMENDATIONS:

Short term:

- No further action is recommended in regards to outlets test

Long Term:

- Repeat full building testing on an annual basis. Generally this should be performed in August prior to the start of the school season.
- Develop a Lead in Water Management Plan in accordance with the 2006 EPA 3Ts for Reducing Lead in Drinking Water in Schools.