



August 27, 2018

St. Rita School for the Deaf
Ken Raupach
1720 Glendale Milford Rd.
Cincinnati, OH 45215

Dear Mr. Raupach,

Samples from a few locations were collected in a resample round of lead analyses for St. Rita School for the Deaf. Greater Cincinnati Water works (GCWW) analyzed the samples and compared the results.

School Sampling Results

The *USEPA 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance Document (3Ts Guidelines)* is the process and guidelines used for assisting schools with testing for lead. Sample results are attached.

Changes made and Next Steps

1. Several samples (SRSD25, SRSD37, SRSD53, SRSD56, SRSD57, and SRSD60) were resampled after lead was detected in the first round of sampling in 2017. Since then, several changes have been made:
 - a. SRSD-GFL-MSA-DF-SRSD25, the drinking fountain line was flushed. These results are consistent with first round sampling and well below the 15ppb federal action level. After flushing, lead levels went up; suggested action is to clean aerator and flush lines.
 - b. SRSD-FL1-ANNEX-IM-SRSD37, the ice machine was replaced and the line was flushed. This reduced the result below the detection level; no further action is suggested at this sample location.
 - c. SRSD-FL1-KIT-SPRAYER-SRSD53, the faucet was replaced and the line was flushed. This reduced the results below the detection level; no further action is suggested at this sample location.
 - d. SRSD-FL1-KIT2TUB-SINK-SRSD56, the aerator was cleaned and the line was flushed. After flushing, lead levels went up and trace amounts of lead are still detected at this location. If this location is not used for food preparation or drinking, no further action is suggested. Lead is not an issue for body contact such as bathing, showering, and washing hands.
 - e. SRSD-FL1-KITISLAND-SINK-SRSD57, the aerator was cleaned and the line was flushed. After flushing, lead levels were greater reduced. Trace amounts of lead are still detected at this location. If this location is not used for food preparation or drinking, no further action is suggested. Lead is not an issue for body contact such as bathing, showering, and washing hands.
 - f. SRSD-FL1-STAFFCAFE-JUICE-SRSD60, the juice machine line was flushed. This reduced the result below the detection level; no further action is suggested at this sample location.



2. The remaining samples include: showers, sinks, and bathtub fixtures. All of these had high lead detections in the first round of sampling in 2017. Since then, shower heads were replaced, aeriators were cleaned, and lines were flushed. Recommendations for these are as follows:
 - a. For all (26) of these sample locations the lead levels were reduced. After flushing, lead detections were greater reduced. Lead is not an issue for body contact such as bathing, showering, and washing hands.
 - b. During the replacement, particles could have been introduced when replacing the faucets and are now on the aerators, contributing to the lead detections.
 - c. If these locations are not used on a regular basis, infrequent use can also contribute to the lead detections.
 - d. Given that all of these locations had lead detections and may possibly be used infrequently in the future, it is suggested that signs are posted limiting their use (e.g., science lab only, showering only, not for drinking purposes, etc.). Signs have been posted by other schools as a helpful way to limit the purpose of the sinks and outlets. Posting signs is suggested as a form of remediation in the 3Ts Guidelines.
 - e. The school should take steps to ensure that water is not obtained from these outlets for making sports drinks, filling water coolers or bottles, etc. that are intended for drinking. Again, posting signs limiting the use and explaining this will be helpful to deter students and staff from using these locations as drinking water outlets.

Your work and changes in the school continue to improve the water quality for the students and staff. Your decisions and actions throughout this process speak to your care and commitment to ensure students and staff remain safe and healthy.

Thanks again for your partnership with Greater Cincinnati Water Works and your work to further understand the water quality within your building. Your extra steps and care to keep the children in our community safe are appreciated!

Sincerely,



Cathy B. Bailey

Director/Greater Cincinnati Water Works

Cc: Dr. Marilyn Crumpton, Cincinnati Health Department
Dr. Camille Jones, Cincinnati Health Department
Chuck DeJonckheere, Hamilton County Public Health
Sheila Hill-Christian, City of Cincinnati
Verna Arnette, Greater Cincinnati Water Works
Jeff Swertfeger, Greater Cincinnati Water Works
Jason DeLaet, Greater Cincinnati Water Works
James Nelson, Greater Cincinnati Water Works

**Cincinnati Archdiocese - St. Rita School for the Deaf
Lead Testing Results-Resamples**

SAMPLE	Initial 1st Draw sample Date 3/4/17 Lead, ppb	Changes made after first round of sampling	1st Draw sample Date 2/3/18 Lead, ppb	30 second flush sample Date 2/3/18 Lead, ppb	60 second flush sample Date 2/3/18 Lead, ppb
SRSD-GFL-GLOCKLWALL-LSHOWER-SRSD5	132	Replaced shower head; flushed the lines	10.4	<1	<1
SRSD-GFL-GLOCKLWALL-MSHOWER-SRSD6	35.9	Replaced shower head; flushed the lines	12.8	1.22	<1
SRSD-GFL-GLOCKLWALL-RSHOWER-SRSD7	20	Replaced shower head; flushed the lines	9.36	<1	<1
SRSD-GFL-GLOCKRWALL-LSHOWER-SRSD8	304	Replaced shower head; flushed the lines	12.3	3.19	1.56
SRSD-GFL-GLOCKRWALL-MSHOWER-SRSD9	52.1	Replaced shower head; flushed the lines	27.2	1.23	1.16
SRSD-GFL-GLOCKRWALL-RSHOWER-SRSD10	250	Replaced shower head; flushed the lines	27	<1	<1
SRSD-GFL-BLOCK-RSINK-SRSD14	12.8	Cleaned the aerator; flushed the lines	2.29	<1	<1
SRSD-GFL-BLOCKBWALL-LSHOWER-SRSD16	52.8	Replaced shower head; flushed the lines	4.19	4.73	<1
SRSD-GFL-BLOCKBWALL-MSHOWER-SRSD17	155	Replaced shower head; flushed the lines	8.55	1.42	1.15
SRSD-GFL-BLOCKBWALL-RSHOWER-SRSD18	43.7	Replaced shower head; flushed the lines	4	<1	<1
SRSD-GFL-BLOCKRWALL-FLSHOWER-SRSD19	23.1	Replaced shower head; flushed the lines	34.5	<1	<1
SRSD-GFL-BLOCKRWALL-LSHOWER-SRSD20	51.1	Replaced shower head; flushed the lines	38.6	<1	<1
SRSD-GFL-BLOCKRWALL-RSHOWER-SRSD21	102	Replaced shower head; flushed the lines	19.6	<1	<1
SRSD-GFL-BLOCKRWALL-FRSHOWER-SRSD22	25.1	Replaced shower head; flushed the lines	6.63	1.29	<1
SRSD-GFL-MSA-DF-SRSD25	1.12	Flushed the lines	1.76	2.07	1.63
SRSD-GFL-HSSCIENCEDESK-LSINK-SRSD29	17.8	Flushed the lines	4	<1	<1
SRSD-GFL-HSSCIENCEDESK-RSINK-SRSD30	14.3	Flushed the lines	8.62	<1	<1

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Lead Testing Results-Resamples**

SAMPLE	Initial 1st Draw sample Date 3/4/17 Lead, ppb	Changes made after first round of sampling	1st Draw sample Date 2/3/18 Lead, ppb	30 second flush sample Date 2/3/18 Lead, ppb	60 second flush sample Date 2/3/18 Lead, ppb
SRSD-GFL-HSSCIENCEDESK-LSINK-SRSD31	20.9	Flushed the lines	8.17	<1	<1
SRSD-GFL-HSSCIENCERDESK-LSINK-SRSD33	15.2	Flushed the lines	5.91	1.04	1.63
SRSD-FL1-ANNEX-IM-SRSD37	<1	Replaced the ice machine; flushed the lines	<1	<1	<1
SRSD-FL1-KIT-SPRAYER-SRSD53	5.38	Replaced the faucet; flushed the lines	2.36	<1	<1
SRSD-FL1-KIT2TUB-SINK-SRSD56	2.31	Cleaned the aerator; flushed the lines	2.2	<1	<1
SRSD-FL1-KITISLAND-SINK-SRSD57	1.02	Cleaned the aerator; flushed the lines	13.2	1.36	1.5
SRSD-FL1-STAFFCAFE-JUICE-SRSD60	3.24	Flushed the lines	<1	<1	<1
SRSD-FL2-GDORMNEAR235-FRSHWR-SRSD66	26.9	Replaced shower head; flushed the lines	12.9	1.63	1.18
SRSD-FL2-CHAPELSISTER-SINK-SRSD79	13.6	Cleaned the aerator; flushed the lines	12.2	3.17	2.88
SRSD-FL3-BDORM-LSHOWER-SRSD99	121	Replaced shower head; flushed the lines	1.9	<1	<1
SRSD-FL3-BDORM-MSHOWER-SRSD100	32.8	Replaced shower head; flushed the lines	28.6	<1	<1
SRSD-FL3-BDORM-FRSHOWER-SRSD102	102	Replaced shower head; flushed the lines	34.3	1.24	<1
SRSD-FL3-CAREER2RR-TUB-SRSD107	154	Flushed the lines	12.3	<1	<1
SRSD-FL3-NURSERR-TUB-SRSD116	166	Flushed the lines	59.3	2.05	3.02
SRSD-FL3-NURSERR-SHOWER-SRSD117	16.1	Replaced shower head; flushed the lines	6.88	2.49	2.09