January 20, 2017

St. Francis Seraph School
Mr. Mabry
1603 Vine St.
Cincinnati, OH 45210

Dear Mr. Mabry:

Thank you for taking the responsibility seriously to protect the health of the children by voluntarily testing the water in your school for lead!

Attached please find the results of the lead analyses performed for St. Francis Seraph School by the Greater Cincinnati Water Works (GCWW). The following comments speak to the process, samples analyzed and additional steps needed to help ensure the safety of all the students within the school.

School Sampling Process and 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.

In December, thirty-two (32) samples were collected from drinking fountains and sinks throughout the school. The results show the following:

- 24 samples (75%), below the detection level (<1)
- 4 samples (12.5%), between 1ppb and 5ppb
- 3 samples (9.38%), between 5ppb and 10ppb
- 0 samples (0%), between 10ppb and 15ppb
- 1 sample (3.12%) greater than 15ppb.

Seventy-five percent (75%) of the samples were below the detection level; twenty-five (25%) of the samples had some level of lead detection.

Fifteen parts per billion (ppb) is the federal Lead and Copper Rule action level; desired results are below 15. The federal action level of 15ppb pertains to water utilities and the Greater Cincinnati Water Works review and comments are based on this action level. However, the USEPA 3Ts Guidelines document outlines practices for schools to put in place if samples are greater than 20 ppb.

While we strive to have results less than 15, we recognize that lead is a pervasive environmental contaminant, and no safe blood lead threshold has been identified in children or adults. Therefore, we provide recommendations to further reduce any lead levels discovered at drinking water and cooking outlets.

Next steps

GCWW has reviewed the results from your samples and provides some next-steps comments:

1. There was one extremely high lead level (west wing sink, 104ppb). Based on the sample name, it is assumed this is not a drinking water or cooking outlet. Although the location is not used for these purposes, consider immediate remedies such as taking the sample location out of service until a more defined plan can be created OR post a sign above the location limiting the purpose of this sink (‘hand

washing only', 'work sink only'). Posting a sign will deter students and staff from potentially using the sink to fill a water bottle, etc. For more information, refer to the 3Ts Guidelines that suggest shutting off or disconnecting problem outlets until the problem is resolved.

2. Although lower than the 15 ppb action level, for samples with lead detections, consider flushing the lines before using the water. Refer to the USEPA 3Ts Guidelines for more information.

3. As an added precaution, consider posting signs at other sink locations indicating 'hand washing only' as these locations should not to be used as drinking water or cooking outlets. Refer to the USEPA 3Ts Guidelines for more information and suggestions on signage.

4. Review how water is being used within your facility. If water is not used on a regular basis at some of these outlets, the infrequent use at the outlet may be contributing to the lead detections. Again, signage at these locations may be helpful (hand washing only, etc.).

5. Consider completing a plumbing profile to review the fixtures in the school as some fixtures may be contributing to the lead detections in samples. If the fixtures are the source of the lead, plan to replace them. GCWW is available to assist with follow-up/repeat sampling related to this.

6. If it hasn't occurred already, a robust communications plan is suggested. Communications plan steps are outlined in the 3Ts Guidelines. This plan will inform the school community of the sampling work the school has done to date and the steps the school will take to correct any issues discovered. GCWW employees can assist with this plan and are available to attend any school meetings to help explain our lead program, the sample results and our partnership with your school. Suggestions for language and a letter template can be provided if needed. Sampling results will be posted on the GCWW lead.mygcww.org website with other school sampling results.

Greater Cincinnati Water Works takes the presence of lead service lines and the removal of those service lines in our system very seriously. In addition, minimizing the exposure of lead within our preschools, schools, and daycares is one of our highest priorities under our Enhanced Lead Program. We look forward to our continued partnership with St. Francis Seraph School. Our resources are available to assist in many ways. Please contact Jim Nelson at 591-6869 for further assistance.

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

GREATER CINCINNATI WATER WORKS
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Cincinnati Archdiocese - St. Francis Seraph School - Lead Teasting Results						
SAMPLE #	SAMPLE DATE	SAMPLE TIME	SAMPLE	PARAMETER CODE	AMOUNT	GCWW COMMENTS/REVIEW/ RECOMMENDATIONS REGARDING RESULTS
SFS1	12/10/2016	9:17:00	SFS-L1-KITCHEN-LSINK-SFS1	Lead, ppb	<1	Less than detection level
SFS2	12/10/2016	9:18:00	SFS-L1-KITCHEN-RSINK-SFS2	Lead, ppb	<1	Less than detection level
SFS3	12/10/2016	9:19:00	SFS-L1-KITCHEN-UTILITYSINK-SFS3	Lead, ppb	<1	Less than detection level
SFS4	12/10/2016	9:20:00	SFS-L1-KITCHEN-HANDSINK-SFS4	Lead, ppb	<1	Less than detection level
SFS5	12/10/2016	9:21:00	SFS-L1-SOUPKITBACKENT-SINK-SFS5	Lead, ppb	2.82	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS6	12/10/2016	9:35:00	SFS-L1-LAUNDRYRM-MSINK-SFS6	Lead, ppb	7.74	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS7	12/10/2016	9:35:00	SFS-L1-LAUNDRYRM-RSINK-SFS7	Lead, ppb	5.42	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS8	12/10/2016	9:36:00	SFS-L1-WESTWING-SINK-SFS8	Lead, ppb	104	Above 15ppb federal action level and the 20ppb trigger outlined in the 3Ts to prompt schools to take action. Until a defined remediation plan is created, immediately remove from service (tag out of service and/or disconnect the water supply to this location).
SFS9	12/10/2016	9:31:00	SFS-L1-VISITORSRR-SINK-SFS9	Lead, ppb	<1	Less than detection level
SFS10	12/10/2016	9:32:00	SFS-L1-FACULTYLOUNGERR-SINK-SFS10	Lead, ppb	<1	Less than detection level
SFS11	12/10/2016	9:40:00	SFS-L1-1STAND2NDGRADE-SINK-SFS11	Lead, ppb	<1	Less than detection level
SFS12	12/10/2016	9:41:00	SFS-L1-1STAND2NDGRADE-DF-SFS12	Lead, ppb	<1	Less than detection level
SFS13	12/10/2016	9:39:00	SFS-L1-HALLWAY-DF-SFS13	Lead, ppb	<1	Less than detection level
SFS14	12/10/2016	9:23:00	SFS-L1-BOYSRR-LSINK-SFS14	Lead, ppb	<1	Less than detection level
SFS15	12/10/2016	9:24:00	SFS-L1-BOYSRR-RSINK-SFS15	Lead, ppb	<1	Less than detection level
SFS16	12/10/2016	9:25:00	SFS-L1-GIRLSRR-LSINK-SFS16	Lead, ppb	<1	Less than detection level
SFS17	12/10/2016	9:25:00	SFS-L1-GIRLSRR-RSINK-SFS17	Lead, ppb	<1	Less than detection level

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SFS18	12/10/2016	9:26:00	SFS-L1-LIBRARY-SINK-SFS18	Lead, ppb	<1	Less than detection level
SFS19	12/10/2016	9:27:00	SFS-L2-PRINCIPLESOFFICE-SINK-SFS19	Lead, ppb	1.2	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS20	12/10/2016	9:47:00	SFS-L2-STAFFRR-SINK-SFS20	Lead, ppb	<1	Less than detection level
SFS21	12/10/2016	9:46:00	SFS-L2-WESTWING-HOSTSINK-SFS21	Lead, ppb	<1	Less than detection level
SFS22	12/10/2016	9:49:00	SFS-L3-STAFFRR-SINK-SFS22	Lead, ppb	<1	Less than detection level
SFS23	12/10/2016	9:45:00	SFS-L3-HALLWAYNEARGRADE6-DF-SFS23	Lead, ppb	<1	Less than detection level
SFS24	12/10/2016	9:44:00	SFS-L3-HALLWAYNEARGRADE6-UTILITYSINK-SFS24	Lead, ppb	9.1	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS25	12/10/2016	9:56:00	SFS-L4-ARTRM-SINK-SFS25	Lead, ppb	2.34	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS26	12/10/2016	9:50:00	SFS-L4-HALLWAY-DF-SFS26	Lead, ppb	<1	Less than detection level
SFS27	12/10/2016	9:51:00	SFS-L4-BOYSRR-LSINK-SFS27	Lead, ppb	<1	Less than detection level
SFS28	12/10/2016	9:51:00	SFS-L4-BOYSRR-RSINK-SFS28	Lead, ppb	<1	Less than detection level
SFS29	12/10/2016	9:52:00	SFS-L4-GIRLSRR-LSINK-SFS29	Lead, ppb	1.41	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
SFS30	12/10/2016	9:52:00	SFS-L4-GIRLSRR-RSINK-SFS30	Lead, ppb	<1	Less than detection level
SFS31	12/14/2016	8:04:00	SFS-L2-PRESCHRM-SINK-SFS31	Lead, ppb	<1	Less than detection level
SFS32	12/14/2016	8:04:00	SFS-L2-PRESCHRM-DF-SFS32	Lead, ppb	<1	Less than detection level