



May 24, 2017

The Good Shepherd Catholic Montessori
Dan Teller
4460 Berwick St.
Cincinnati, OH 45227

Dear Mr. Teller,

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 The Good Shepherd Catholic Montessori 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

GCWW and Good Shepherd Catholic Montessori staff worked together to finalize a sampling plan for the school. 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 March, thirty-three (33) samples were collected from drinking fountains, sinks and cooking outlets throughout the school. Including sinks as sampling locations speaks to the proactive approach your school is taking to understand the water quality within the school. The results show the following:

- 22 samples (66.67%), below the detection level (<1)
- 7 samples (21.21%), between 1ppb and 5ppb
- 3 samples (9.09%), between 5ppb and 10ppb
- 1 samples (3.03%) between 10ppb and 15ppb

One hundred percent (100%) of the sample results were below the detection level or below the federal action level.

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 GCWW's 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 in your school.

Next steps

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

1. Great news; all of the sample results were below the federal action level! Comments follow to assist you in further reducing the risk of lead.



2. One hundred percent (100%) of the drinking fountain samples were below the detection level; no further action is needed.
3. The kitchen sink sample had a low lead level. To further reduce this, flush the line (let the water run) before use.
4. Some other sample locations had lead detections, many of them were low results. For these samples with lead detections, as an added precaution, consider posting signs at sink locations indicating 'hand washing only' (or other specific purposes) 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.
5. Review how water is being used within your school. If water is not used on a regular basis at some of these outlets, the infrequent use may be contributing to the lead detections. This may be the case in the Art Room and with some of the restroom sinks. Again, signage at these locations may be helpful (hand washing only, etc.).
6. 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. The USEPA 3Ts Guidelines outlines a great approach to creating and implementing a remediation plan. A copy of the Guidelines can be found on our website <http://www.cincinnati-oh.gov/water/assets/File/3T%20Guidance%20Manual%20for%20Schools.pdf>.

State funds are available through the new Lead Plumbing Fixture Replacement Assistance Grant Program established to provide reimbursement to eligible schools for the assessment and replacement of certain plumbing fixtures. The Program was established in House Bill 390 to provide \$12,000,000 in funding to eligible schools to reimburse for the sampling and replacement of drinking fountains, water coolers, plumbing fixtures, and limited connected piping. Schools built before 1990 can apply for reimbursement up to \$15,000 for sampling of eligible fixtures and the material costs to replace those fixtures if they are identified as being over the federal action level for lead. The program is open to traditional public schools, community schools, and chartered non-public schools. Program information can be found on the Ohio Facilities Construction Commission (OFCC) Services and Programs website <http://ofcc.ohio.gov/ServicesPrograms/LeadFixtureReplacementGrants.aspx>.

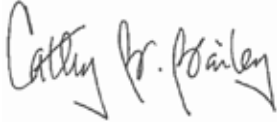
7. A number of the lead detections were low detections. For the sample locations with lead detections, we have known and learned from other schools (that are participating in this program) that cleaning the faucet and aerator may reduce the lead levels. This is due to the cleaning that removes trapped particles on the aerator. Cleaning may help reduce the lead levels further and may prove to be more helpful than a complete plumbing profile. Follow-up sampling at these locations can occur if you choose to clean the faucet and aerator. GCWW can assist with this.
8. 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. Please contact Jim Nelson at 591-6869 if you have any questions.

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,

A handwritten signature in black ink that reads "Cathy B. Bailey". The signature is written in a cursive style with a large initial "C" and a long, sweeping underline.

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

Good Shepherd Catholic Montessori - Lead Testing Results

SAMPLE #	SAMPLE DATE	SAMPLE TIME	SAMPLE	PARAMETER CODE	AMOUNT	GCWW COMMENTS/REVIEW/RECOMMENDATIONS REGARDING RESULTS
GSCM1	3/11/2017	7:45:00	GSCM-UL-BOYSRR-LSINK-GSCM1	Lead, ppb	2.12	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM2	3/11/2017	7:46:00	GSCM-UL-BOYSRR-RSINK-GSCM2	Lead, ppb	<1	Less than detection level
GSCM3	3/11/2017	7:48:00	GSCM-UL-HALLWAYNEARBOYSRR-DF-GSCM3	Lead, ppb	<1	Less than detection level
GSCM4	3/11/2017	7:49:00	GSCM-UL-GIRLSRR-LSINK-GSCM4	Lead, ppb	<1	Less than detection level
GSCM5	3/11/2017	7:49:00	GSCM-UL-GIRLSRR-RSINK-GSCM5	Lead, ppb	<1	Less than detection level
GSCM6	3/11/2017	7:51:00	GSCM-UL-HALLWAYNEARGIRLSRR-DF-GSCM6	Lead, ppb	<1	Less than detection level
GSCM7	3/11/2017	7:53:00	GSCM-LL-STAFFWORKRR-SINK-GSCM7	Lead, ppb	<1	Less than detection level
GSCM8	3/11/2017	7:55:00	GSCM-LL-ATRUM-SINK-GSCM8	Lead, ppb	<1	Less than detection level
GSCM9	3/11/2017	7:56:00	GSCM-LL-ATRUM-DF-GSCM9	Lead, ppb	<1	Less than detection level
GSCM10	3/11/2017	7:58:00	GSCM-LL-STGABRIEL-DF-GSCM10	Lead, ppb	<1	Less than detection level
GSCM11	3/11/2017	7:59:00	GSCM-LL-STGABRIEL-LSINK-GSCM11	Lead, ppb	<1	Less than detection level
GSCM12	3/11/2017	8:00:00	GSCM-LL-STGABRIEL-RSINK-GSCM12	Lead, ppb	<1	Less than detection level
GSCM13	3/11/2017	8:02:00	GSCM-LL-STRAPHEAL-DF-GSCM13	Lead, ppb	<1	Less than detection level
GSCM14	3/11/2017	8:03:00	GSCM-LL-STRAPHEAL-LSINK-GSCM14	Lead, ppb	<1	Less than detection level
GSCM15	3/11/2017	8:04:00	GSCM-LL-STRAPHEAL-RSINK-GSCM15	Lead, ppb	<1	Less than detection level
GSCM16	3/11/2017	8:06:00	GSCM-LL-STMICHAEL-DF-GSCM16	Lead, ppb	<1	Less than detection level
GSCM17	3/11/2017	8:08:00	GSCM-LL-STMICHAEL-LSINK-GSCM17	Lead, ppb	<1	Less than detection level
GSCM18	3/11/2017	8:09:00	GSCM-LL-STMICHAEL-RSINK-GSCM18	Lead, ppb	<1	Less than detection level
GSCM19	3/11/2017	8:15:00	GSCM-CHURCH-MENSRR-LSINK-GSCM19	Lead, ppb	1.85	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM20	3/11/2017	8:15:00	GSCM-CHURCH-MENSRR-RSINK-GSCM20	Lead, ppb	2.5	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.

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GSCM21	3/11/2017	8:19:00	GSCM-CHURCH-ART-LSINK-GSCM21	Lead, ppb	14.4	Art Room. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM22	3/11/2017	8:19:00	GSCM-CHURCH-ART-MSINK-GSCM22	Lead, ppb	5.29	Art Room. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM23	3/11/2017	8:20:00	GSCM-CHURCH-ART-RSINK-GSCM23	Lead, ppb	1.05	Art Room. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM24	3/11/2017	8:22:00	GSCM-CHURCH-WOMENSRR-LSINK-GSCM24	Lead, ppb	<1	Less than detection level
GSCM25	3/11/2017	8:23:00	GSCM-CHURCH-WOMENSRR-RSINK-GSCM25	Lead, ppb	1.53	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM26	3/11/2017	8:24:00	GSCM-CHURCH-SACRISTY-SINK-GSCM26	Lead, ppb	6.13	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM27	3/11/2017	8:28:00	GSCM-STJOEFL1-RR-SINK-GSCM27	Lead, ppb	1.23	Pre-K. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM28	3/11/2017	8:31:00	GSCM-STJOEFL1-KITCHEN-SINK-GSCM28	Lead, ppb	1.88	Pre-K. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.

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GSCM29	3/11/2017	8:35:00	GSCM-STJOEFL1-NAPPINGROOMRR-SINK-GSCM29	Lead, ppb	3.96	Pre-K. Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM30	3/11/2017	8:34:00	GSCM-STJOEFL2-RR-SINK-GSCM30	Lead, ppb	5.69	Lead detected; less than 15ppb action level. Review 3Ts Guidelines to understand options to further reduce the risk of lead.
GSCM31	3/11/2017	8:42:00	GSCM-QUEENOFANGELS-MCCARTHYRR-SINK-GSCM31	Lead, ppb	<1	Less than detection level
GSCM32	3/11/2017	8:44:00	GSCM-QUEENOFANGELS-RATAJCZAK-DF-GSCM32	Lead, ppb	<1	Less than detection level
GSCM33	3/11/2017	8:45:00	GSCM-QUEENOFANGELS-RATAJCZAKRR-SINK-GSCM33	Lead, ppb	<1	Less than detection level