SCI ENGINEERING, INC.
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GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

November 13, 2023

Bill Branson
Rockwood School District
17146 Manchester Road
Wildwood, Missouri 63040

RE: Lead in Drinking Water Report
Eureka Early Childhood Center
442 West Fourth Street
Eureka, Missouri
SCI No. 2018-0351.2T

Dear Bill Branson:

## INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead in drinking water testing activities performed on July 18, 2023. The purpose of the sampling activities was to screen for elevated levels of lead in the drinking water at potable water sources throughout the above-referenced structure.

The drinking water survey is intended to satisfy the requirements for the "Get the Lead Out of School Drinking Water Act" (GTLOSDWA), Section 160.077 administered by the Missouri Department of Health and Senior Services. Potable water sources to be tested were identified by the school district prior to SCI's field activities.

## LIMITATIONS

SCI's testing activities were limited to locations identified by the school district. If any additional potable water sources need testing, please contact SCI, and we will make arrangements for testing of these fixtures. Potable water sources that were not sampled will need a sign placed near each fixture informing students and faculty it is not to be used as a drinking water source.

During the course of sampling fixtures within the building, four fixtures were non-operational. These fixtures include the bottle filler in the hallway between Rooms 13 and 14, the ice makers in both the left and right refrigerators, and the standalone ice machine in the Staff Lounge. If these fixtures are made operational, they should be sampled or labeled non-potable. SCI was able to sample all other locations identified by the school district.

## DRINKING WATER SURVEY

SCI collected "first draw" samples which consisted of collecting a water sample from each fixture or sample location after it remained stagnant for at least eight hours. Prior to sampling, SCI first mobilized to the site to flush the identified potable water fixtures throughout the structure. Once each fixture was flushed, a sign was placed on the fixture indicating it should not be used. SCI then revisited the site, after a minimum of eight hours, to collect water samples from the fixtures.

SCI collected 14 drinking water samples (EECC-1 though EECC-14) from various water fixtures located throughout the structure and submitted them for analytical testing. The drinking water samples were analyzed for total lead by U.S. EPA Method 200.8. SCI collected a minimum of 250 milliliters of water from each location. Sampled water was containerized in laboratory-provided sample containers and shipped to the lab using standard chain-of-custody procedures. A figure depicting the locations of the sampled water fixtures is enclosed.

The drinking water samples were analyzed for lead in accordance with the "Get the Lead Out of School Drinking Water Act", Section 160.077, which establishes an action level (AL) of 5 parts per billion (ppb). The drinking water samples which exceeded the AL are identified in Table 1, below. A copy of the analytical test results and chain-of-custody for all samples is enclosed.

**Table 1 – Lead in Drinking Water Results**

| Sample Number | Sample Location | Sample Description | Result (ppb) |
|---|---|---|---|
| EECC-04 | Staff Lounge | Sink | 5.65 |
| EECC-05 | Hallway Outside Conference Room | Water Fountain | 7.09 |
| EECC-06 | Hallway Outside Conference Room | Bottle Filler | 6.34 |
| EECC-09 | Kitchen | Three Basin Sink, Left Sink | 30.4 |
| EECC-10 | Kitchen | Three Basin Sink, Right Sink | 60.1 |
| EECC-11 | Kitchen | Handwash Sink | 37.5 |
| EECC-12 | Nurse's Office | Sink | 6.05 |
| EECC-13 | Nurse's Office | Fridge Ice Machine | 29.7 |
| EECC-14 | Hallway Outside 2nd Floor Bathroom | Water Fountain | 7.04 |

## CONCLUSION AND RECOMMENDATIONS

As can be seen in Table 1, above, 9 drinking water samples exceeded the AL of 5 ppb. According to GTLOSDWA, these water fixtures shall be remediated prior to August 1, 2024, or the first day on which students will be present in the building, whichever is later. Any replacement fixture shall be lead free, as such term is defined in 40 CFR 143.12.

## REPORTING

Within seven business days after receiving this report, the school district shall contact parents and staff via written notification which shall include the following:

- The test results and a summary that explains such results;
- A description of any remedial steps taken;
- A description of general health effects of lead contamination and community specific resources; and

- If there is not enough water to meet the drinking water needs of the students, teachers, and staff, bottled water shall be provided.

Additionally, within two weeks of receiving this report, the results and any lead remediation plans must be made available on the school's website.

This report, and subsequent annual testing reports, must be submitted to the Missouri Department of Health and Senior Services, Healthy Drinking Water Unit, PO Box 570, Jefferson City, MO 65102-0570.

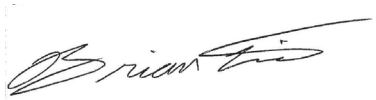
**FUTURE TESTING**

After the fixtures identified in Table 1, above, have been remediated, at least 25 percent of the remediated fixtures must be sampled annually until all remediated sources have been tested. Once all fixtures have been tested and are below the AL, the school shall test the fixtures once every five years.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

**SCI ENGINEERING, INC.**



Brian L. Lieb
Project Scientist



Glen A. Grissom
Senior Specialist

BLL/GAG/sjs

Enclosures
Lead Drinking Water Sampling Plan
Lead Testing Results