SCI ENGINEERING, INC.
EARTH • SCIENCE • SOLUTIONS
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 High School
4525 MO-109
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 August 2 and 17, 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 performing sampling of fixtures within the building, SCI was unable to sample ten fixtures because they were out of order. These fixtures included bottle fillers in the boy's locker room, by the bathrooms next to Door 6, next to Room 201, above Gym B, a sink in Room 504, a wall-mounted sink and ice maker in the kitchen, two water fountains in the concession stand, and a water fountain above Gym B. 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 137 drinking water samples (EHS-1 through EHS-137) 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. Figures depicting the locations of the sampled water fixtures are enclosed.

The drinking water samples were analyzed for lead in accordance with the GTLOSDWA 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)
EHS-9	Room D116	Sink 3 - Right Faucet	11.9
EHS-13	Room D116	Sink 5 - Left Faucet	5.40
EHS-14	Room D116	Sink 5 - Right Faucet	7.26
EHS-25	Room D116	Sink 4 - Left Faucet	8.72
EHS-26	Room D116	Sink 4 - Right Faucet	14.3
EHS-37	Kitchen	North Handwash Sink	17.6
EHS-39	Kitchen	Food Line Faucet	8.47
EHS-46	Kitchen	Left Combi-Oven (Southeast)	16.8
EHS-47	Kitchen	Right Combi-Oven (Northeast)	16.8
EHS-48	Kitchen	Kettle Faucet	173
EHS-49	Kitchen	Combi-Oven (Southwest)	28.9
EHS-50	Kitchen	Wall Faucet	183
EHS-57	Kitchen	Southwest Food Line Faucet	66.4
EHS-58	Kitchen	Southwest-Central Food Line Faucet	52.4
EHS-59	Kitchen	Northeast-Central Food Line Faucet	65.0
EHS-60	Kitchen	Southwest Handwash Sink	7.14
EHS-61	Kitchen	Sink (to the right of Southwest Handwash Sink)	13.1
EHS-68	Hallway Outside Bathroom near Room E124	Right Fountain	7.51
EHS-69	Hallway Outside Bathroom near Room E124	Right Bottle Filler	5.89

Table 1 – Lead in Drinking Water Results (continued)

Sample Number	Sample Location	Sample Description	Result (ppb)
EHS-70	Hallway Outside Bathroom near Room E124	Left Fountain	5.61
EHS-71	Hallway Outside Bathroom near Room E124	Left Bottle Filler	5.25
EHS-75	Pool	Water Fountain	48.3
EHS-76	Pool	Bottle Filler	14.3
EHS-86	Hallway by Gym B	Water Fountain	6.58
EHS-89	Room F124	Bottle Filler	7.27
EHS-90	Hallway by Room F133	Water Fountain	9.99
EHS-104	Hallway by Room C128	Water Fountain	40.4
EHS-108	Hallway by Main East Entrance	Water Fountain	7.85
EHS-134	Room E133	Sink	5.2

CONCLUSION AND RECOMMENDATIONS

As can be seen in Table 1, above, 29 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