



Sedalia School District #200 (SSD #200) – Lead in Water Safety Plan

2806 Matthew Drive, Sedalia Missouri

Chris Pyle
Assistant Superintendent
Phone 660-829-6457
pylec@sedalia200.org

Richie Simons
Director of Maintenance
simonsr@sedalia200.org

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Introduction: Purpose of this Plan

The Sedalia School District #200 is committed to providing a safe, healthy learning & work environment for all of our students and staff. We recognize the importance of protecting our students and staff from potential lead exposure and are confident the procedures established in this plan will accomplish this goal. This plan is designed to mitigate the exposure of students and staff to lead in drinking water, food preparation and dish washing water sources throughout our facilities. This plan was developed in compliance with Missouri Statutes RSMO 160.077 (Get the Lead out of School Act 2022) and the Missouri Department of Health and Senior Services (MDHSS).

Regulations

Get the Lead Out of School Drinking Water Act (RsMo 160.077)
[Revised Statutes of Missouri, RSMo Section 160.077](#)

Other Resources

Fact Sheet: Tips for Schools

<https://health.mo.gov/living/environment/lead/pdf/tips-for-schools-fact-sheet.pdf>

Frequently Asked Questions

[RSMo 160.077; Get the Lead Out of School Drinking Water Act \(2022\)](#)

EPA 3Ts for Reducing Lead in Drinking Water

[3Ts for Reducing Lead in Drinking Water | US EPA](#)

Sampling Logistics & Water Analysis:

Sedalia School District #200 has contracted Blackstone Environmental to conduct all the sampling of the drinking and potable water sources. They will submit all samples to a Missouri Department of Natural Resources certified laboratory for testing.

Sedalia School District #200 has determined that using an independent company for sample collections is best for the following reasons:

- Blackstone Environmental's staff is trained in the sampling and chain of custody procedures to ensure the integrity of sample analysis.
- Sampling and analysis are done by a third party and provides a more independent review and transparency.

Step 2 - Conduct First Draw Tap Monitoring

According to Missouri RSMo 160.077 regulations, Blackstone Environmental staff will conduct the first draw sampling of all previously identified water sources. First draw means that the samples are collected before the fixture is used or flushed for the day. The first draw testing represents the **worst-case scenario** for lead in water.

- The day before sampling - flush each water source to be sampled for a minimum of five minutes.
- Affix signage to each water source to prevent the source from being used prior to sample collection.
- Return to each facility between 8 and 18 hours after flushing.
- Collect a water sample from each water source into a laboratory supplied 250-ml sample container.
- Complete field information form
- Transfer samples under chain-of-custody procedures to TekLab, a NELAP accredited laboratory.

Step 3 - Communicate Results

Upon completion of sampling and receipt of laboratory analysis results, Blackstone Environmental will prepare a report and maps for each facility. The maps will include the approximate sample location, unique sample identification number, type of sample (i.e., drinking fountain, faucet, ice machine, etc.), and lead concentration. Blackstone Environmental will highlight those samples on the map exceeding the Action Level. Blackstone Environmental will provide recommendations for those water sources that exceed the action levels, which may include removal of the location from service, filtering etc. depending on the individual results.

Blackstone Environmental will provide two hardcopies and one electronic PDF of the laboratory analytical reports, chain of custody documentation, field forms, summary tables and maps organized by facility to the District within 30 days of receipt of the lab results.

Upon receipt of documentation from Blackstone Environmental, Sedalia School District will post all results on the District website within 2 weeks. For any facility that has a sample or samples exceeding the action level, Sedalia School District#200 will contact parents and staff via written notification within 7 days. This notification will include the following information.

- The test results and a summary that explains the results.
- A description of any remedial steps taken

Sedalia School District #200 will also report all findings in an annual report to the Missouri Department of Health and Senior Services.

Step 4 - Interpretation of Sample Results

Lead in water results are expressed in parts per billion (ppb). The Missouri Department of Health and Senior Services action level for lead in water is 5 ppb as measured on a first draw sampling basis. Lead hazard remediation options are implemented at any school facility or at targeted tap locations where lead in water levels are at or above 5 ppb. In most schools the lead hazard remediation options are implemented at targeted taps in some instances in may be a building wide plan.

Step 5 - Remediation

Over the last 20 years, most water conveyances and fixtures used for consumption have been replaced or components replaced due to lead. Following lead in water testing at a school, results are evaluated to determine the best remediation option. The removal of lead sources is the first option considered and is implemented where and when feasible.

Short term:

The initial course of action is to limit any further exposure to lead in water. This can be accomplished by taking drinking fountains and faucets out of service until the lead source can be identified. Per State law, for those sources that are not critical for drinking, food preparation and utensil cleaning, signage will be placed to discontinue use until long term remediation actions can be taken. The sign at the source may state "Sink for hand washing and curricular use only".

Long term:

If sinks are determined to not be used for drinking or food preparation signage may remain per state law as a long-term remediation. For those necessary for drinking, food preparation and utensil cleaning the following actions may be taken:

- Taps identified above 5 ppb are evaluated by the District Maintenance Shop to determine if the possible source of lead is at the fixture. If the source of lead is determined to be at the fixture, the fixture is either removed from service or replaced, or fixture components are replaced.
- It has been found in a few cases that the lead source is in the debris trapped in the faucet strainer. In this case the strainer is removed and cleaned before being reinstalled.
- To minimize the introduction of lead into the drinking water systems, SSD #200 requires that plumbing materials and fixtures used are certified lead free.
- SSD #200 has included a filtered bottle filler/fountain to the standard in new construction and renovation projects. Over the last 10 years the District maintenance Shop has replaced many older drinking fountains with filtered bottle filler/fountains at each school.

Reminder, all remediated sources will be retested before being placed back into service.