**Remediation Plan Recommendations**

For test points at or above 5 pbb lead content, per §160.077, secure water and discontinue use until remediated unless testing proves that flushing will provide water below 5ppb.

HS-32 Girl’s locker room showers did not pass flush testing. This is indicative of supply line problems causing lead to be leached into the water supply. These three showers must be secured until remediated. This is important due to not only the possibility of getting water into one’s mouth during a shower but also, in the eyes where the thing membranes are particularly susceptible to absorption.

All other outlets have passed flush testing. This is indicative that the outlets need to be replaced. If adequate supplies of drinking water are available, the fountains may be removed, and the lines capped. Until remediation can be completed, the EPA allows for the practice of flushing the fixtures at the beginning of the day for 3-5 minutes prior to use for outlets that pass flush testing. These outlets must have signage “Flush 3-5 minutes per day prior to use”. This allows for continued use until remediated but is not acceptable as a stand-alone remediation. Other Options for remediation include a filtration unit at the inlet of the fountain units and/or replace supply line with an approved material (PEX or Copper) tied into a known good source and either a systemic clean and flush of the unit while removed or replace with new unit.

Some options for remediation of sink faucets include installation of point of use filtration (PUR, Brita, and Aquasana) are some examples. They just need to have lead reducing filters, usually NSF/ANSI standard 42/53 filters as recommended by the EPA-NOTE- this method was shown to significantly reduce the lead levels in Flint Mi.

30-second follow-up flush samples that passed indicates that the feeder lines to those faucets are not leaching substantive amounts of lead into the water. While these faucets are not typically used for drinking, the law stipulates that any outlet which is used or may potentially be used for drinking, cooking, or washing dishes must be tested and remediated if necessary. Those flush samples above 5ppb indicate that the supply lines are contaminated and must either be replaced along with the corresponding outlet or new line routed to them from a known good source. Those sinks that have aerators should be checked to ascertain if the aerators are dirty, have scale build up, calcification or other blockages that could be trapping contaminants. If any are noted, then it may be worthwhile to clean or replace the aerators and retest after a thorough flush.

The most common cause for faucets failing testing is corrosion and/or clogged aerators. Corrosivity is a function of low pH, low alkalinity, higher temperatures, and high specific conductivity. Additionally, older faucets may have been manufactured before the lead/copper rule as explained in 40 CFR subpart 141.

If you desire further health information, you can contact your county health department:

## [Putnam County Health Department](https://www.bing.com/ck/a?!&&p=dc7ffab9ec31c830JmltdHM9MTY5NTQyNzIwMCZpZ3VpZD0wYjMxZjJmNS0wMmM3LTYyNzQtMzU4MC1lMTc0MDNlZDYzMDUmaW5zaWQ9NTUyNQ&ptn=3&hsh=3&fclid=0b31f2f5-02c7-6274-3580-e17403ed6305&u=a1aHR0cHM6Ly93d3cuYmluZy5jb20vYWxpbmsvbGluaz91cmw9aHR0cCUzYSUyZiUyZnB1dG5hbWNvaGVhbHRoZGVwdC5vcmclMmYmc291cmNlPXNlcnAtbG9jYWwmaD10aE16cXJOb0tudnBXUlp1aGN0WXlSUzhJN1RXekZSZHdHNGtZYlRBeUpRJTNkJnA9bHdfZ2J0JmlnPTE4M0IyMENCRjcxNDQyNkE5NkQ4OTg2NTFDOUVDMjkxJnlwaWQ9WU44NzN4NzY4MzIxODE3MzUxNDI2Nzc0MQ&ntb=1)

putnamcohealthdept.org

[103 N 18th St, Unionville, MO 63565](https://www.bing.com/ck/a?!&&p=69d0ec8a76a8b48eJmltdHM9MTY5NTQyNzIwMCZpZ3VpZD0wYjMxZjJmNS0wMmM3LTYyNzQtMzU4MC1lMTc0MDNlZDYzMDUmaW5zaWQ9NTUyNg&ptn=3&hsh=3&fclid=0b31f2f5-02c7-6274-3580-e17403ed6305&u=a1L21hcHM_Jm1lcGk9MTA5fn5Ub3BPZlBhZ2V-QWRkcmVzc19MaW5rJnR5PTE4JnE9UHV0bmFtJTIwQ291bnR5JTIwSGVhbHRoJTIwRGVwYXJ0bWVudCZzcz15cGlkLllOODczeDc2ODMyMTgxNzM1MTQyNjc3NDEmcHBvaXM9NDAuNDc3Mjc1ODQ4Mzg4NjdfLTkzLjAwNDYwMDUyNDkwMjM0X1B1dG5hbSUyMENvdW50eSUyMEhlYWx0aCUyMERlcGFydG1lbnRfWU44NzN4NzY4MzIxODE3MzUxNDI2Nzc0MX4mY3A9NDAuNDc3Mjc2fi05My4wMDQ2MDEmdj0yJnNWPTE&ntb=1)

(660) 947-2429

**Flush Test Results:**

|  |  |  |  |
| --- | --- | --- | --- |
| ROOM HS29 FB COACH SHOWER |  | **8.82** | ND |
| ROOM HS29 FB COACH HAND SINK | **45.5** | ND |
| ROOM HS30 BB COACH HAND SINK | **35** | 2.27 |
| ROOM HS32- GIRLS LOCKER SHOWER #1 | **237** | 11 |
| ROOM HS32- GIRLS LOCKER SHOWER #2 | **129** | 178 |
| ROOM HS32- GIRLS LOCKER SHOWER #3 | **679** | 265 |
| ROOM HS32- GIRLS LOCKER SHOWER #4 | **298** | 10.6 |
| ROOM HS32- GIRLS LOCKER SHOWER #5 | **74.6** | 14.8 |
| ROOM HS28 FACS FOOD PREP SINK #4-SC | **10.5** | ND |
| KITCHEN SCULLERY SPRAYER #1 |  | **330** | ND |
| KITCHEN SCULLERY SPRAYER #2 |  | **130** | ND |
| KITCHEN SCULLERY SPRAYER #3 |  | **64** | ND |
| KITCHEN ICE MACHINE |  | **10.2** | ND |
| BY ROOM MS9 FOUNTAIN ON LEFT | **9.27** | ND |
| BY ROOM MS9 BOTTLE FILLER ON LEFT | **7.05** | ND |
| BY EL22 FOUNTAIN |  | **7.32** | ND |
| BY ROOM HS2 BOTTLE FILLER |  | **34.8** | ND |
| ROOM EL20 BOTTLE FILLER |  | **11.2** | ND |
| BB FLD CONCESSION BOYS RR SINK | **7.31** | ND |
| SOFT BALL CONCESSION HAND SINK #1 | **8.5** | 2.67 |
| RM HS34-GIRLS LOCKER HAND SINK | **13.3** | 2.64 |
| SOAR HAND SINK #2 |  | **13.6** | ND |
| FB NORTH LOCKER ROOM SHOWER ON LEFT | **7.27** | ND |

The Kitchen hand washing sink was not retested and will remain as a hand washing only station per school request.