



Remediation Plan Recommendations

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

The 65 points listed below all indicated greater than 5parts per billion during the initial draw sampling phase. All were re-tested using the flush test method, test points highlighted in green passed flush testing which indicates that supply lines are not contributing substantive amounts of lead into the water supply, but rather the outlets themselves are at fault. This can be caused by a number of factors: Hardness of the water, corrosion of iron pipes, high pH, high alkalinity, high temperatures (water heaters), high corrosivity, and the specific gravity of the materials used in construction of the outlets. As lime scale builds up it can cause a bottleneck that traps corrosion particulate matter, that then leaches into the water supply lines. Additionally, older faucets may have been manufactured before the lead/copper rule as explained in 40 CFR subpart 141.

The outlets identified below (in green) may continue to be used provided a 3-5 minute daily flush-prior to use is performed. Flushing as a stand-alone measure is not considered adequate remediation.

Shown below are the test points with flush test results in green.

ALL ITEMS ARE REQUIRED TO HAVE SOME FORM OF REMEDIATION

Remediation recommendations are listed to the right of each outlet and are based on the type and overall level of lead contamination derived from the two types of testing.

Initial	Flush	Remedial	Location	Remediation Recommendations
15.00	2.58	#CALC!	CENTRAL OFFICE BOYS RR SINK	Hand Wash Only Signs
13.40	4.28		CENTRAL OFFICE GIRLS RR SINK	
5.34	1.44		CENTRAL OFFICE FOOD PREP SINK	Point of use filter
17.80	7.25		CENTRAL OFFICE HALL GIRLS RR SINK ON RIGHT	Hand Wash Only Signs
14.00	8.14		CENTRAL OFFICE HALL GIRLS RR SINK IN MIDDLE	
47.00	10.40		CENTRAL OFFICE HALL BOYS RR SINK ON RIGHT	
19.80	7.97		CENTRAL OFFICE HALL BOYS RR SINK IN MIDDLE	
12.20	2.94		CENTRAL OFFICE HALL BOYS RR SINK ON LEFT	



8.85	2.22		CENTRAL OFFICE HALL FOUNTAIN	Inline filter designed to reduce Lead-Thorough cleaning of the bubbler/interior lines and clean/replace aerator on bottle filler
19.20	1.08		CENTRAL OFFICE HALL BOTTLE FILLER	
7.07	4.66		HS RM23 FACS LEFT TO RIGHT FOOD PREP SINK3	Install Inline filter where water enters room and replace aerators
6.17	15.20		HS RM23 FACS LEFT TO RIGHT FOOD PREP SINKS	
22.30	2.50		HS LIBRARY FOOD PREP SINK	Point of use filter
7.92	1.01		HS RM2 & 3 CHEMICAL LAB HAND SINK	External use only signage
9.55	ND		HS RM3 LAB BACK WINDOW HAND SINK ON LEFT	External use only signage
8.54	1.25		HS RM3 HALL GIRLS RR SINK IN MIDDLE	Hand Wash Only Signs
12.60	3.84		HS RM3 HALL BOYS RR SINK ON RIGHT	
18.10	5.95		HS RM3 HALL BOYS RR SINK IN MIDDLE	
30.90	2.00		HS RM4 SCIENCE HAND SINK ON FAR RIGHT	External use only signage
19.00	2.10		HS RM4 SCIENCE HAND SINK ON RIGHT	
18.20	1.44		HS RM4 SCIENCE HAND SINK ON LEFT	
23.00	1.62		HS RM4 SCIENCE HAND SINK ON FAR LEFT	
20.70	3.00		HS RM5 SCIENCE LAB HAND SINK1	
25.80	3.71		HS RM5 SCIENCE LAB HAND SINK2	
23.80	5.50		HS RM5 SCIENCE LAB HAND SINK3	
23.10	3.27		HS RM5 SCIENCE LAB HAND SINK4	
17.20	3.31		HS RM5 SCIENCE LAB HAND SINK5	
27.00	2.59		HS RM5 SCIENCE LAB HAND SINK6	
27.10	4.53		HS RM5 SCIENCE LAB HAND SINK7	
30.80	3.24		HS RM5 SCIENCE LAB HAND SINK8	
18.70	4.23		HS RM5 SCIENCE LAB HAND SINK9	
27.60	6.84		HS RM5 SCIENCE LAB HAND SINK10	
44.00	4.26		HS RM5 SCIENCE LAB HAND SINK11	
34.00	3.11		HS RM5 SCIENCE LAB HAND SINK12	
42.60	4.95		HS RM5 SCIENCE LAB HAND SINK13	



7.84	ND		HS WORKROOM GIRLS RR SINK	Hand Wash Only Signs
7.66	ND		HS WORKROOM BOYS RR SINK	
18.30	5.75		HS TECH ROOM HAND SINK	
6.90	ND		HS RM26 LIFE SKILLS FOOD PREP SINK ON RIGHT	Install Inline filter where water enters room and replace aerators
8.37	ND		HS RM26 LIFE SKILLS FOOD PREP SINK ON RIGHT SCULLERY SPRAYER	
5.20	ND		HS RM26 LIFE SKILLS FOOD PREP SINK ON LEFT	
9.82	1.13		HS RM26 LIFE SKILLS FOOD PREP SINK ON LEFT SCULLERY SPRAYER	
5.33	ND		MS BREAKROOM FOOD PREP SINK	Point of use filter
25.50	ND		MS RM18 7TH GRADE SCIENCE HAND SINK ON FAR RIGHT	External use only signage
16.00	ND		MS RM18 7TH GRADE SCIENCE HAND SINK ON RIGHT	
31.60	2.38		MS RM18 7TH GRADE SCIENCE HAND SINK ON LEFT	
64.00	ND		MS RM18 7TH GRADE SCIENCE HAND SINK ON FAR LEFT	
14.60	ND		MS OFFICE LUNCHROOM FOOD PREP SINK	Point of use filter
7.74	ND		MS RM31 HAND SINK ON RIGHT	Hand Wash Only Signs
6.53	ND		MS KITCHEN MIXER AREA FOOD PREP SINK	Install Inline filter where water enters room and replace aerators Scullery sprayer may need to be replaced with a certified lead free model
10.40	ND		MS KITCHEN DISH SINK ON RIGHT	
8.74	ND		MS KITCHEN DISH SINK ON LEFT	
7.14	ND		MS KITCHEN SCULLERY SPRAYER	
7.74	ND		TRACK TICKET BOOTH BOYS RR SINK ON FAR LEFT	Hand Wash Only Signs
10.90	ND		OLD GYM BASEMENT RR SINK	
12.80	273.00		OLD GYM FOOTBALL LOCKER FOUNTAIN	Inline filter designed to reduce Lead-Thorough cleaning of the bubbler/interior lines and clean/replace aerator on bottle filler



8.86	ND		NEW GYM SOUTH BOYS RR SINK ON RIGHT	Hand Wash Only Signs
6.07	ND		NEW GYM NORTH GIRLS RR SINK ON FAR RIGHT	
25.90	ND		NEW GYM NORTH GIRLS RR SINK ON RIGHT	
10.10	ND		NEW GYM NORTH BOYS RR SINK ON FAR RIGHT	
6.13	ND		NEW GYM NORTH BOYS RR SINK ON RIGHT	
10.10	ND		NEW GYM NORTH BOYS RR SINK ON LEFT	
9.21	ND		NEW GYM NORTH BOYS RR SINK ON FAR LEFT	
122.00	*		AUDITORIUM CLOSET VALVE MTP	no further action necessary-elevated reading is due to corrosion at back side of ttest valve-No other failures in this building
6.09	ND		ELEM K/1ST RM222 HAND SINK	Point of use filter

Some options for remediation include permanent signage stating that the outlet is “Non-Potable Hand Washing Only”, removal or replacement of the unit, or 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 53 filters as recommended by the EPA. -NOTE- this method was shown to significantly reduce the lead levels in Flint Mi by as much as 97 %.

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. Additionally, with the number of sinks that passed flush testing, I would recommend sediment filtration be installed in-line with the water main at the building entry points.

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

www.springfieldmo.gov

[Springfield-Greene County Health Department](#)

[227 E Chestnut Expy, Springfield, MO 65802](#) [\(417\) 864-1658](#)