



Salem R-80 School District

1409 West Rolla Road, Salem, MO 65560 Phone 573.729.6642

Superintendent: Dr. Lynne Reed Assistant Superintendent: Dr. Nathan Wills

Dear Families,

We recently received our second round of water test results. This test was conducted to determine where the lead content was emanating. The re-test used a flush method (running the water for 30 seconds prior to collecting a sample). Some water outlets were not re-tested as they were determined to be outlets not used for drinking water or food preparation. Signage was placed on water outlets not re-tested to illustrate that they are not to be used for drinking or food preparation. The hydrant near the track is the only water outlet that tested above the 5 ppb threshold on our second round of testing. The following are the results and the remediation plan created by our testing partners, Get the Lead Out LLC, to address our affected water outlets. We are currently working to remediate the affected water outlets and will re-test in January.

Remediation Plan Recommendations by Get the Lead Out LLC:

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

The 59 points listed below all indicated greater than 5 parts per billion during the initial draw sampling phase. 27 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. Those highlighted in red did not pass flush testing and are indicative of supply lines leaching substantive amounts of lead into the water for those outlets. This can be caused by several 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.

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 42/53 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, sediment filtration is recommended to 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:
 Dent County Health Center dentcountyhealth.com 1010 E Scenic Rivers Blvd, Salem, MO
 65560 573-260-0071

Data from both rounds of Testing

Location	Initial	Flush	Recommendation
SLHS-DISH SINK ON RIGHT IN KITCHEN	6.77	1.04	NSPSR-No Sample Per School Request. (1) Install point of use filters, In-line filters can be used for outlets on the same feeder, or (2) Replace faucets, or (3) Check aerators and if clogged replace and retest.
SLHS-SCULLERY SPRAYER IN KITCHEN	11.3	ND	
SLHS-FOOD PREP 1 IN ROOM 126	774	3.4	
SLHS-SCULLERY SPRAYER 1 IN ROOM 126	8.83	N/S	
SLHS-FOOD PREP 2 IN ROOM 126	24.9	1.2	
SLHS-FOOD PREP 3 IN ROOM 126	31.3	ND	
SLHS-FOOD PREP 4 IN ROOM 126	28.2	ND	
SLHS-FOOD PREP 5 IN ROOM 126	11.2	ND	
SLHS-SCULLERY SPRAYER 5 IN ROOM 126	9.84	N/S	
SLLE-SCULLERY SPRAYER IN KITCHEN	7.46	ND	
SLUE-FOOD PREP IN LIBRARY	15	2.29	
SLUE-SCULLERY SPRAYER IN KITCHEN	5.77	ND	
SLUE-DISH SINK #1 IN KITCHEN	10.6	ND	
SLUE-DISH SINK #2 IN KITCHEN	6.87	ND	
SLLE-BOTTLE FILLER BY ROOM 125	10.7	ND	(1) Replace fountains/bottle fillers, or (2) Install In-line filters and thoroughly clean/flush fountain, or (3) Remove and cap.
SLLE-BOTTLE FILLER BY NURSE OFFICE	7.1	1.2	
SLUE-DRINKING FOUNTAIN IN ROOM 132	6.87	ND	
SLUE-DRINKING FOUNTAIN IN ROOM 134	63.5	ND	
SLUE-DRINKING FOUNTAIN IN ROOM 108	5.13	ND	
SLUE-DRINKING FOUNTAIN IN ROOM 140	20	ND	
SLHS-DRINK WATER IN CAFE	8.27	2.92	
SLHS-DRINK FOUNT ON LEFT IN CAFE	7.17	2.68	
SLHS-DRINK FOUNT ON RIGHT IN CAFE	11.4	3.04	
SLHS-DRINK FOUNT BY ROOM 121	6.28	2.95	
SLHS-DRINK FOUNT BY ROOM 124	17.6	1.67	(1) Replace supply lines with approved piping from known good source and replace outlets, or (2) Place permanently mounted signs "Non-potable, external use only"
DRINKING FOUNTAIN ON BASEBALL FIELD	6.27	ND	
Hydrant on Track	8.9	7.13	(1) Replace faucets, or (2) Check aerators, if clogged, clean or replace and retest, or (3) Install in-line filters, or (4) Place permanent "Hand washing only signs"
SLHS-HAND SINK IN KITCHEN	16.5	1.04	
SLLE-HAND SINK IN KITCHEN	6.96	ND	
SHOWER #1 IN GIRLS LOCKER ROOM	76.3	N/S	NSPSR- No Sample Per School Request. Place permanent hand washing only signs near each faucet Secure and cap showers.
SHOWER #2 IN GIRLS LOCKER ROOM	25.2	N/S	
SHOWER #1 IN BOYS LOCKER ROOM	40.4	N/S	
SHOWER #2 IN BOYS LOCKER ROOM	397	N/S	

1ST SHOWER ON LEFT BASKETBALL LOCKER	217	N/S
2ND SHOWER ON LEFT BASKETBALL LOCKER	55.4	N/S
3RD SHOWER ON LEFT BASKETBALL LOCKER	18.8	N/S
1ST SHOWER ON RIGHT BASKETBALL LOCKER	43.6	N/S
2ND SHOWER ON RIGHT BASKETBALL LOCKER	45.6	N/S
SHOWER 3 ON RIGHT IN BASKETBALL	403	N/S
SHOWER IN BOYS LOCKER ROOM	34.5	N/S
SHOWER IN CAFE	10.2	N/S
GIRLS REST ROOM FAUCET 2 BY RM 116	14.4	N/S
HAND SINK IN NURSE OFFICE	5.39	N/S
BOYS RESTROOM FAUCET 2 BY ROOM 113	6.74	N/S
HAND SINK IN ROOM 111	6.35	N/S
HAND SINK IN NURSES OFFICE	6.36	N/S
HAND SINK IN ROOM 108	8.76	N/S
FOOD PREP IN AG ROOM 142	9.38	N/S
SPRAYER IN AG ROOM 142	9.6	N/S
HAND SINK IN ROOM 102	21.7	N/S
1ST GIRLS FAUCET BY 116 IN LWR ELEM	13.8	N/S
HAND SINK IN ROOM 133	12.3	N/S
HAND SINK IN ROOM 135	18.4	N/S
HAND SINK IN ROOM 136	12.5	N/S
HAND SINK IN ROOM 140	38.2	N/S
HAND SINK IN ROOM 139	11.8	N/S
HAND SINK IN ROOM 141	9.79	N/S
HAND SINK IN ROOM 142	11.2	N/S
HAND SINK IN ROOM 134	16	N/S
HAND SINK IN ROOM 132	13.8	N/S
BOYS RESTROOM FAUCET 1 BY RM 118	9.39	N/S
BOYS RESTROOM FAUCET 2 BY RM 118	12.3	N/S