



120 East Davis Street
Fayette, MO 65248-1405
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www.inovatia.com

Date: 10/2/2023

RE: Drinking Water Lead Analysis
Facility: Calhoun R-VIII

Date Received: 08/25/23
Time Received: 08:04
Relinquished by: Corrina Alley
Sampler: Corrina Alley

Chain of Custody Number: Pb-0073

Enclosed please find results for the sample(s) received as described above. The values reported are in conformance with internal and method quality control guidelines.

If you have questions or need more information, please contact us.

Thank you for your interest in working with Inovatia Laboratories.

Sincerely,

A handwritten signature in cursive script that reads "Jennifer Vandelicht".

Jennifer Vandelicht
Quality Assurance

Note: Testing Performed by NELAC Facility E87688

Enclosures:
Chain of Custody Record(s)



Analysis Report

Total Lead by ICP-MS

Chain of Custody: Pb-0073

Facility: Calhoun R-VIII

Sample Matrix: Water

Method of Analysis: EPA 200.8

Laboratory Number	Customer Sample Number	Date Collected	Sample Type	Result ug/L (ppb)	Reporting Limit
Pb-0073-001	CLH01-SCI-HS2 FF-001	8/25/2023	Flush	1.38	1.0
Pb-0073-002	CLH01-STOR-FP1 FF-002	8/25/2023	Flush	ND	1.0
Pb-0073-003	CLH01-STOR-SC1 FF-003	8/25/2023	Flush	16.5	1.0
Pb-0073-004	CLH01-STOR-SC2 FF-004	8/25/2023	Flush	ND	1.0
Pb-0073-005	CLH01-KIND-HS FF-005	8/25/2023	Flush	ND	1.0
Pb-0073-006	CLH01-GLKR-HS FF-006	8/25/2023	Flush	1.47	1.0
Pb-0073-007	CLH01-ADMIN-BK-RRF FF-007	8/25/2023	Flush	ND	1.0
Pb-0073-008	CLH01-BRDRM-RRF FF-008	8/25/2023	Flush	2.97	1.0

This report has been produced for the exclusive and confidential use of our clients. Reference to the analyses, the results, or the company is prohibited without obtaining prior written consent.



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.

The 8 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. Those highlighted in red did not pass flush testing and is 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.

Initial	Flush	Recommendation	
21.8	ND	FOOD PREP #1 IN STORAGE ROOM	
142	165	SCULLERY SPRAYER #1 IN STORAGE ROOM	(1) replace faucets or, (2) install in-line or point of use filters or, (3)Secure and cap
18.3	ND	SCULLERY SPRAYER #2 IN STORAGE ROOM	
8.11	ND	HAND SINK IN KINDERGARTEN	
16.4	147	HAND SINK IN GIRLS LOCKER ROOM	(1) Place a hand washing only sign or, (2) replace faucets or, (3) inspect aerators and replace if clogged and retest or (4) install point-of-use filters or in-line filters as appropriate.
43.7	ND	REST ROOM FAUCET IN BACK OFFICE OF ADMIN	
8.3	297	REST ROOM FAUCET IN BOARD ROOM	
54.2	138	HAND SINK #2 IN SCIENCE ROOM	

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.



GET THE LEAD OUT!

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, 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:

Henry County Health Center henrycohealth.org **1800 Community Dr. Suite A, Clinton, MO 64735.**

(660) 885-8193