

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

Regulated Contaminant Test Results		Madisonville Water Department					
Contaminant (lead) (units)	MCL	MCLG	Report Level	Range of Detection	Date of Sample	Violation	Likely Source of Contamination
Barium [1010] (ppm)	2	2	0.025	0.025 to 0.025	Feb-23	No	Drilling wastes, metal refines; erosion of natural deposits
Fluoride [1025] (ppm)	4	4	0.76	0.76 to 0.76	Feb-23	No	Water additive which promotes strong teeth
Disinfectants/Disinfection Byproducts and Precursors							
Total Organic Carbon (ppm) (measured as ppm, but reported as a ratio)	TT*	N/A	1.23 (lowest average)	1.08 to 1.43 (monthly ratios)	2023	No	Naturally present in environment.
*Monthly ratio is the % TDC removal achieved to the % TDC removal required. Annual average must be 1.00 or greater for compliance.							
Chlorine (ppm)	MRDL = 4	MRDLG = 4	1.32 (highest average)	0.6 to 2.5	2023	No	Water additive used to control microbes.
HAA (ppb) (Stage 2) (haloacetic acids)	60	N/A	40 (high site average)	21 to 50 (range of individual sites)	2023	No	Byproduct of drinking water disinfection.
THM1 (ppb) (Stage 2) (total trihalomethanes)	80	N/A	62 (high site average)	22 to 92 (range of individual sites)	2023	No	Byproduct of drinking water disinfection.
Household Plumbing Contaminants							
Copper [1022] (ppm) (Round sites exceeding action level)	AL = 1.3	1.3	0.067 (99 th percentile)	0.004 to 0.128	Jul-21	No	Corrosion of household plumbing systems
Other Constituents							
Turbidity (NTU) TT	Allowable Levels	Highest Single Measurement	Lowest Monthly % Violation	Violation	Violation	Violation	Likely Source of Turbidity
* Representative samples	No more than 1 NTU*	0.06	100	No	No	No	Soil runoff
* Turbidity is a measure of the clarity of the water and less than 0.3 NTU in not a contaminant. 95% of monthly samples							

Fluoride (added for dental health)	Average	Range of Detection
	0.8	0.71 to 0.9
Sodium (EPA guidance level = 20 mg/L)	8.6	8.64 to 8.64

Secondary contaminants do not have a direct impact on the health of consumers. They are being included to provide additional information about the quality of the water.

Secondary Contaminant	Maximum Allowable Level	Report Level	Range of Detection	Date of Sample
Chloride	250 mg/l	10.1	10.1 to 10.1	Feb-23
Copper	1.0 mg/l	0.005	0.005 to 0.005	Feb-23
Corrosivity	Noncorrosive	-1.08	-1.08 to -1.08	Feb-23
Fluoride	2.0 mg/l	0.66	0.66 to 0.66	Feb-23
pH	6.5 to 8.5	7.6	7.6 to 7.6	Feb-23
Sulfate	250 mg/l	37.7	37.7 to 37.7	Feb-23
Total Dissolved Solids	500 mg/l	160	160 to 160	Feb-23

