

# CITY OF AUBURN WATER TEST RESULTS FOR 2021

## REGULATED PARAMETERS AT CITY OF MIDLAND WATER TREATMENT PLANT

Substance	Amount Detected					Likely Source	Violation
	Unit	Range	Average	MCL	MCLG		
Fluoride	ppm	0.06-0.88	0.63	4	4	Erosion of natural deposits; Water treatment additive which promotes strong teeth.	NO
Turbidity <sup>a</sup>	ntu	0.02-0.21	n/a	TT <sup>a</sup>	n/a	Soil runoff; suspended matter in surface water.	NO
Barium <sup>b</sup>	ppm	0.01	0.01	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits. Discharge from petroleum refineries; erosion of natural deposits; discharge from mines.	NO

a. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system. The treatment technique for turbidity requires that all samples be below 1 ntu, and at least 95% of the samples each month be lower than 0.3 ntu. 100% of our samples were below 0.3 ntu.

b. Testing for this substance conducted every nine years. Test date 2013.

## REGULATED PARAMETERS IN THE DISTRIBUTION SYSTEM

Substance	Amount Detected				Likely Source	Violation	
	Unit	Range	Highest RAA <sup>c</sup>	MCL			
Total Trihalomethanes	ppb	23-53	40	80	By-products of drinking water disinfection.	NO	
Total Haloacetic Acids	ppb	10-21	22	60	By-products of drinking water disinfection.	NO	
				MRDL	MRDLG		
Chlorine	ppm	0.59-1.11	0.92	4	4	Water treatment additive for control of microbial contaminants.	NO

c. Highest Running Annual Average (RAA) calculated quarterly.

## REGULATED PARAMETERS AT THE CUSTOMER'S TAP (CITY OF AUBURN)

Substance	Amount Detected					Likely Source	Violation
	Unit	90th Percentile	Range (# exceeding AL)	MCL	MCLG		
Copper <sup>d,f</sup>	ppm	0.4	0.2-0.8 (0)	AL=1.3	1.3	Corrosion of household plumbing systems.	NO
Lead <sup>e,f</sup>	ppb	4	0-25 (1)	AL=15	0	Corrosion of household plumbing systems.	NO

d. No testing site exceeded the Copper Action Level of 1.300 ppm.

e. There was 1 testing site that exceeded the Lead Action Level of 15 ppb.

f. Tested in 2021. Annual testing started in 2019 to meet latest requirement of Lead and Copper.

## UNREGULATED PARAMETERS

Substance	Unit	Amount Detected	Likely Source	Violation
Sodium	ppm	4.4	Erosion of natural deposits.	NO

## UNREGULATED CONTAMINANTS MONITORING RULE 4TH ROUND (UCMR4 2019-20)

HALO ACETIC ACIDS (3)	Amount Detected		Likely Source	Violation
	Average	Range		
Bromochloroacetic acid (ppb)	2.78	0.9-4.2	By-products of drinking water disinfection.	NO
Bromodichloroacetic acid (ppb)	3.59	1.7-5.7	By-products of drinking water disinfection.	NO
Chlorodibromoacetic acid (ppb)	0.68	0.4-1.4	By-products of drinking water disinfection.	NO
<b>METALS: Manganese (ppb)</b>	0.52	One Occurrence	Naturally occurring	NO

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## IMPORTANT DEFINITIONS

The previous table contains scientific terms and measures, some of which may require an explanation.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers the need for additional treatment or other requirements that a water system must meet.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

**Maximum Contaminant Level Goal (MCLG):** The level of contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

**Nephelometric Turbidity Units (ntu):** A measure of the clarity of water. The lower the numbers, the clearer the water.

**Not Applicable:** n/a

**Part per million (ppm); Part per billion (ppb):** These units describe the level of detected contaminants. One part per million is about 1/2 of an aspirin tablet (162.5 mg) in a full bathtub of water (about 50 gallons). One part per billion is about one aspirin tablet (325 mg) in a 25-meter swimming pool (about 100,000 gallons).

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**Unregulated Contaminants** are those for which EPA has not established drinking water standards. Monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants. City of Midland monitored for these contaminants and complete results of monitoring are available on request.