2023 Water Quality Table for the City of Dixon

Lead & Copper	Date Tested	Unit	MCLG	Action Level-AL	90th Percentile	# Sites over AL	Major Source	Violation
Copper	2023	ppm	1.3	1.3	0.93	1	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.	NO
Lead	2023	ppb	0	15	1.1	1	Corrosion of household plumbing systems; Erosion of natural deposits.	NO

Contaminant	Date Tested	Unit	MCL	MCLG	Highest Level*	Range	Major Source	Violation
Inorganic Contaminants								
Arsenic	2023	ppb	10	0	2	0 - 2.8	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	NO
Barium	2023	ppm	2	2	0.1	0.058 - 0.1	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	NO
Fluoride	2023	ppm	4	4	0.739	0.595 - 0.739	Erosion of Natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	NO
Iron	2021	ppm	1	N/A	0.18	0.018 - 0.18	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	NO
Manganese	2021	ppb	150	150	12	12-Dec	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.	NO
Nitrate (measured as Nitrogen)	2023	ppm	10	10	0.04	0 - 0.04	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	NO
Sodium	2023	ppb	N/A	N/A	7.9	3.2 - 7.9	Erosion from naturally occuring deposits: Used in water softner regeneration.	NO
Selenium	2023	ppb	50	50	1.9	0 - 1.9	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.	NO
Radioactive Contaminants								
Uranium	2012	ug/l	30	0	0.2682	.13708 - .2682	Erosion of natural deposits.	NO
Gross Alpha Emitters excluding Radon and Uranium	2023	pCi/L	15	0	6	2.29 - 7.71	Erosion of natural deposits.	NO
Combined Radium 226/228	2023	pCi/L	5	0	3	1.601 - 3.77	Erosion of natural deposits.	NO
Disinfectants and Disinfection By-Products								
Chlorine	2023	ppm	MRDL = 4	MRDLG = 4	1.1	1 - 2	Water additive used to control microbes.	NO
Haloacetic Acids (HAA5)*	2023	ppb	60	N/A	5	3.39 - 4.59	By-product of drinking water disinfection.	NO
TTHMs (Total)	2023	ppb	80	N/A	13	11.06 - 12.9	By-product of drinking water disinfection.	NO
Synthetic Organic Contaminants including Pesticides and Herbicides								
Di (2-ethylhexyl) phtalate	2014	ppb	6	0	2.6	0 - 2.6	Discharge from rubber and chemical factories.	NO

**Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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

Maximim 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 treatment technology.

Maximum Residual Disinfection 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 contaminants.

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.

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

Level 1 Assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

MNR: Monitored Not Regulated

MPL: State Assigned Maximum Permissable Level

Unit

N/A: Not Applicable **N/D:** Not Detected **N/R:** Monitoring Not Required, but recommended

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Description

pCi/L: picocuries per liter (measure of radioactivity) **ppb:** micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water **mrem**: millirems per year (a measure of radiation absorbs by the body)