CITY OF BURLINGTON

Consumer Confidence Report - 2024 Covering Calendar Year - 2023



This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. If you would like to observe the decision-making process that affect drinking water quality, please call MARY MADER at 620-364-5334.

Your water comes from:

i	Source Name	Source Water Type
	NEOSHO RIVER INTAKE 999	Surface Water

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in sources water before we treat it include: Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife. Inorganic contaminants, such as salts and metals, which can be naturallyoccurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming. Pesticides and herbicides, which may come from a variety of sources such as storm water run-off, agriculture, and residential users.

Radioactive contaminants, which can be naturally occurring or the result of mining activity.

Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Our water system is required to test a minimum of 4 samples per month in accordance with the Revised Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2023 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2023. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. The bottom line is that the water that is provided to you is safe.

Terms & Abbreviations

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

Maximum Contaminant Level (MCL): the "Maximum Allowed" MCL is 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. Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.

Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

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

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.

Non-Detects (ND): lab analysis indicates that the contaminant is not present. Parts per Million (ppm): or milligrams per liter (mg/l)

Parts per Billion (ppb): or micrograms per liter (µg/l)

Picocuries per Liter (pCi/L): a measure of the radioactivity in water. Millirems per Year (mrem/yr): measure of radiation absorbed by the body. Monitoring Period Average (MPA): An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs. Locational Running Annual Average (LRAA): Average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

	Testing R	GTON	- 4 10	
	Result	MCL	MCLG	Typical Source
Microbiological	the month of December, 2	Treatment Technique	0	Naturally present in the environment
COLIFORM (TCR)	sample(s) returned as positive	Trigger		

COLIFORM (TCR) sample(s) returned as positive	Triggor			
	Collection Highes	t Range Unit	MCL	MCLG	Typical Source
Regulated Contaminants	Date Value		2		Discharge from metal refineries
BARIUM	4/10/2023 0.041 4/10/2023 1.1	1.1 ppb	50	50	Erosion of natural deposits
SELENIUM	the state of the s	The second second			

SELENIUM	Monitoring	Highest Range	Unit	MCL	MCLG	Typical Source
Disinfection Byproducts TOTAL HALOACETIC ACIDS	Period 2023	RAA (low/high) 34 22 - 28	ppb	60		By-product of drinking water disinfection By-product of drinking water chlorination
(HAA5) TTHM	2023	60 41 - 47	ppb	80	Site	

TTHM	2023	60 41-71			
LITIM		goth Range		Sites	Typical Source
	Monitoring Period		Unit	AL Over AL	51
Lead and Copper	Monitoring renea	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mag	1.3 0	Corrosion of household plumbing
ACCOUNT FREE	2020 - 2022	0.065 0.0059 - 0.092		15 0	Corrosion of household plumbing
COPPER, FREE	2020 - 2022	0 0 -2.1	ppo p	nen and young child	iren. Lead in drinking water is primarily from yiding high quality drinking water but cannot
LEAD	Land one cause serious	health problems, especially for p	regnant won	- recognishing for ord	widing high quality drinking water but carnot

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from in present, elevated levels of lead can cause serious needing problems, to progress, to providing high quality drinking water but cannot materials and components associated with service lines and home plumbing. Your water system is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or

water tested. Information on read in driming at http://www.epa.gov/safewater/lead .				DAAIInito
at http://www.epa.govisale	MPA	MPA Units	RAA	RAA Units
Maximum Disinfection Level	3.6000	MG/L	3.3	MG/L
2023 - 2023	3.0000			Laurest Monthly Removal Ratio

2023 - 2023 State Organic Carbon Number of Samples Actual Removal Ratio	Required Removal Ratio	Lowest Monthly Removal Ratio
Total Organic Carbon Lowest Month for Removal 12 190	1.0 RATIO	1.20
8/1/2023 - 8/31/2023 13 1.50		avol .

econdary Contaminants – Non-Health Based Contaminants	Collection Date	Highest Value	Range (low/high)	Unit	SMCL
No Federal Maximum Contaminant			66	MG/L	300
Establisneu.	4/10/2023	66	0.11	MG/L	0.05
KALINITY, TOTAL	4/10/2023	0.11	31	MG/L	200
LUMINUM	4/10/2023	31	35	MG/L	250
ALCIUM	4/10/2023	35		UMHO/CM	1500
UL OPIDE	4/10/2023	380	380	LANG	0
ONDUCTIVITY @ 25 C UMHOS/CM	4/12/2021	0.0027	0.0027	MG/L	400
OPPOSIVITY	4/10/2023	150	150	MG/L	150
ARDNESS, TOTAL (AS CACO3)	4/10/2023	18	18	MG/L	0.1
AGNESIUM	4/10/2023	0.0024	0.0024	PH	8.5
IICKEL	4/10/2023	8.3	8.3	MG/L	5
PH	4/10/2023	0.087	0.087	MG/L	100
HOSPHORUS, TOTAL	4/10/2023	4.1	4.1	MG/L	50
POTASSIUM	4/10/2023	0.45	0.45	MG/L	100
SILICA	4/10/2023	22	22	MG/L	250
SODIUM	4/10/2023	81	81	MG/L	500
SULFATE	4/10/2023	230	230	141012	

1	FDS	
-	ease Note: Because of sampling schedules, results may be older than 1 year. Com	
Ρŀ	ease Note: Because of sampling schedules, results may be older than 1 years. uring the 2023 calendar year, we had the below noted violation(s) of drinking water regulations. Com Analyte	ments
Dι	uring the 2023 calendar year, we had the San Analyte	
	No Violations Occurred in the Calendar Year of 2023	There byproducts

Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts Total organic carbon (TOO) has no health choos. The result of some state of the MCL may lead to adverse health effects, include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, include trihalomethanes (THMs) and haloacetic acids (HAAs).

liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present. There are no additional required health effects violation notices.