No Prinking Water Quality Report





JUNCTION INN POCKET CONSUMER CONFIDENCE REPORT

Southwest Water Authority's vision is "People and Businesses Succeeding with Quality Water." We take our responsibility of providing southwest North Dakota with a reliable supply of quality drinking water very seriously. Working with the North Dakota Department of Environmental Quality and the Environmental Protection Agency (EPA), we place drinking water safety at the top of our priorities. Our drive is to achieve a level of excellence that is unsurpassed in our field. To that end, we present our Annual Drinking Water Report. This report will provide information to our customers about the quality of our drinking water. It contains a table of water quality data, definitions of terms, specific language requirements, and other information we hope you will find useful and educational.

Source and Treatment

The water source for the Junction Inn Pocket is surface water obtained from the Missouri River. The water is treated by the Mandan Water Treatment Plant using the following processes: clarification, softening, filtration, fluoridation, and disinfection. The Missouri West Water System purchases water from the City of Mandan for delivery to their customers. Southwest Water Authority then purchases water from Missouri West Water System for delivery to you, our valued customer.

Contamination Sources

The sources of drinking water (both tap water and bottled water) include 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 source water include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater 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 agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The North Dakota Department of Environmental Quality has prepared a Source Water Assessment for the City of Mandan's surface water intake and has classified Mandan's water system as moderately susceptible to potential contaminant sources. It should be noted that historically, the city has effectively treated its source water to meet drinking water standards and the risk for potential contamination is low. Information about the Source Water Assessment is available by calling 701-667-3275.

Drinking Water Safety

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). More information about drinking water is available on EPA's website at www.epa.gov/safewater.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons 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. The EPA/Centers for Disease Control and Prevention (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).

So the Bottom Line is This.

At Southwest Water Authority, our highest priority is your family's health where drinking water is concerned. With that thought in mind, we are pleased to report that our water system was in compliance with all drinking water regulations in 2024. We want you and all of our valued customers to be informed about our water utility, therefore if you have any questions about this report or any other concerns, please contact Grace Rixen, Water Treatment Manager or Ledeanna O'Shields, CFO/Office Administrator at 888-425-0241 or e-mail us at swa@swwater.com. You are welcome to attend any of our regularly scheduled meetings, which are generally held on the first Monday of each month. If you are interested in attending or would like to request an agenda time, please contact us at the number listed above for information on time and location. If you are aware of non-English speaking individuals who need assistance with the appropriate language translation, please contact us at the number listed above. In order to allow individuals who consume our drinking water, but who do not receive water bills, to learn about our water system, we would appreciate it if our large volume water customers would post copies of this report in conspicuous locations or distribute them to tenants, residents, patients, students, and/or employees.

Detected Contaminants

The EPA requires us to monitor for over 90 drinking water contaminants. Those that were detected are listed in the table below. Test results are from 2024. The State does allow reduced monitoring for certain contaminants because their levels do not change significantly over time. For this reason, some of the test results are more than one year old.

City of Mandan's Table of Detected Regulated Contaminants											
Contaminant (units)	MCLG	MCL	Level Detected	Detection Range	Test Date	Exceedance or Violation?	Major Sources in Drinking Water				
Total Organic Carbon (TOC) Removal											
Alkalinity (ppm) Source Water	N/A	TT	162	142-162	2024	N/A	Natural erosion, plant activities, and certain industrial waste discharges				
Total Organic Carbon (ppm) Source Water	N/A	TT	4.3	3.1-4.3	2024	N/A	Naturally present in the environment				
Total Organic Carbon (ppm) Finished Water	N/A	TT	2.7	2.3-2.7	2024	N/A	Naturally present in the environment				
Microbial Contaminants											
Turbidity¹ (NTU)	N/A	TT= 0.3	0.082	N/A	2024	100% of samples met limit	Soil runoff				
Radioactive Contaminants											
Gross Alpha, including Ra, excluding Rn & U (pCi/l)	15	15	ND	N/A	2018	No	Erosion of natural deposits				
Radium combined (226,228) (pCi/l)	0	5	0.0696	N/A	2018	No	Erosion of natural deposits				
Uranium, Combined (ppb)	0	30	1.27	N/A	2018	No	Erosion of natural deposits				
Inorganic Contaminants											
Barium (ppm)	2	2	0.0111	N/A	2016	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits				
Fluoride (ppm)	4	4	0.74	N/A	2016	No	Erosion of natural deposits; Water additive which promotes strong teeth Discharge from fertilizer and aluminum factories				
Nitrate-Nitrite (ppm)	10	10	0.083	N/A	2024	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits				

Southwest Water Authority's Table of Detected Regulated Contaminants											
Contaminant (units)	MCLG	MCL	Level Detected	Detection Range	Test Date	Exceedance or Violation?	Major Sources in Drinking Water				
Inorganic Contaminants											
Copper (ppm)	0	AL= 1.3	0.091	0.012- 0.114	2022	No sites exceeded the Action Level	Corrosion of household plumbing systems; Erosion of natural deposits				
Lead ² (ppb)	0	AL= 15	ND	ND-ND	2022	No sites exceeded the Action Level	Corrosion of household plumbing systems; Erosion of natural deposits				
Disinfectants											
Chloramines (ppm)	MRDLG = 4	MRDL = 4.0	2.10	1.80-2.40	2024	No	Water additive used to control microbes				
Disinfection Byproducts											
Total Haloacetic Acids (ppb)	0	60	15	9.95-14.73	2024	No	By-product of drinking water disinfection				
Total Trihalomethanes (ppb)	0	80	38	35.57-40.85	2024	No	By-product of drinking water disinfection				

Definitions and Abbreviations:

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 (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 a 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 contaminants.

Parts per billion (ppb): 1 ppb is equivalent to adding 1 pound of a contaminant to 999,999,999 pounds of water (about 120,000,000 gallons).

Parts per million (ppm): 1 ppm is equivalent to adding 1 pound of a contaminant to 999,999 pounds of water (about 120,000 gallons).

Picocuries per liter (pCi/l): A measure of radioactivity.

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

N/A: Not Applicable

ND: Not Detected

NTU: Nephelometric Turbidity Units

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their personal doctor.

The water we provide is treated with the addition of fluoride as a part of the water treatment process to enhance dental health. For information regarding the level of fluoride in the finished water provided to our customers please

¹Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of our filtration system.

²There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups, especially pregnant people, infants (both formula-fed and breastfed), and young children. Some of the health effects to infants and children include decreases in IQ and attention span. Lead exposure can also result in new or worsened learning and behavior problems. The children of persons who are exposed to lead before or during pregnancy may be at increased risk of these harmful health effects. Adults have increased risks of heart disease, high blood pressure, kidney or nervous system problems. Contact your health care provider for more information about your risks. Southwest Water Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. Use water from the cold tap for drinking and cooking. 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 drinking 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 at http://www.epa.gov/safewater/lead.

³ USEPA has recently published the Lead and Copper Rule Revision. The purpose of this revision is to strengthen public health protections by removing lead service lines within public water systems. One requirement of this rule revision was to inventory all drinking water service lines within our public water system and notify consumers which type of line serves each property. You may have recently received a letter from our system with this information. Additional work to update the service line inventory, including inspection of the line, may need to be performed to further document and confirm the type of material make up both the public and private portions of the line serving your home or business. We will need the help of home/building owners in order to access the service line on the private side of the service line to positively identify the material of the line that carries water within your home/building. Our system may perform this work with our own system employees.