



2021 Drinking Water Quality Report

City of Dickinson, North Dakota

The City of Dickinson is pleased to present our Annual Drinking Water Quality Report, also commonly referred to as the “Consumer Confidence Report (CCR)”. The purpose of this report is to provide information to our customers about the quality of our drinking water and the potential health risks, if any, associated with any detected contaminants. It will also provide access to additional information that will allow you to make informed decisions regarding drinking water consumption. Our water system was compliant with Drinking Water Regulations in 2021. This report has been prepared in accordance with recent amendments to the Safe Drinking Water Act and it contains definitions of terms, specific language requirements, a table of water quality data (on Table 1, on the second page of this report), and other pertinent information we hope you will find useful and educational. If you have any questions, or would like additional information, please contact: City Hall, c/o: Mr. Gary Zuroff, Public Works Director, 38 1st Street West, Dickinson, North Dakota 58601, or at 1-701-456-7979. We would appreciate that our large volume water customers post copies of this report in a conspicuous location or distribute them to tenants, residents, students, and/or employees. This will allow individuals who consume our drinking water, but do not receive water bills, to view this report, which is also available at: www.dickinsongov.com. Non-English-speaking individuals who need assistance with the translation of this report may also contact us at the number listed above.

On April 1, 2000, the Southwest Water Authority (SWA) took over management, operation, and maintenance of the Dickinson Water Treatment Plant. Therefore, there are two reporting entities for 2021: SWA and the City of Dickinson. The City of Dickinson purchases drinking water from SWA, which in turn takes Missouri River water from Lake Sakakawea, a surface water source. As part of a nationwide program, the North Dakota Department of Health completed an assessment of our source water and determined that our water system is moderately susceptible to potential contaminant sources. They also noted that “historically, SWA has effectively treated this source water to meet drinking water standards.” The Source Water Assessment is completed by SWA, and their results are included in this report. For additional information please call SWA at: 1-888-425-0241.

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 effects can be obtained by calling the EPA’s Safe Drinking Water Hotline at: 1-800-426-4791. 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:

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 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 agriculture, urban storm water 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 storm water 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, 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. 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. 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 at: 1-800-426-4791.

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 materials and components associated with service lines and home plumbing. The City of Dickinson – Water Utilities Department 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: www.epa.gov/safewater/lead.

Table 1 - 2021 Water Quality Data

Contaminant (units)	MCLG	MCL	Level Detected	Detection Range	Test Date	Exceedance or Violation?	Major Sources in Drinking Water
Southwest Water Authority – Detected Regulated Contaminants – Total Organic Carbon (TOC) Removal							
Alkalinity (ppm) Source Water	N/A	N/A	171	162 – 171	2021	N/A	natural erosion, plant activities, and certain industrial waste discharges
Total Organic Carbon (ppm) Source Water	N/A	TT	5.05	2.97 – 5.05	2021	N/A	naturally present in the environment
Total Organic Carbon (ppm) Finished Water	N/A	TT	4.4	1.99 – 4.40	2021	N/A	naturally present in the environment
Southwest Water Authority - Detected Regulated Contaminants – Microbial Contaminants							
Turbidity ¹ (NTU)	N/A	TT = 0.3	0.24	N/A	2021	100% of samples met turbidity limit	soil runoff
Southwest Water Authority - Detected Regulated Contaminants – Inorganic Contaminants							
Barium (ppm)	2	2	0.0126	N/A	2016	No	discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	4	4	0.92	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	0.073	N/A	2021	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Southwest Water Authority – Detected Regulated Contaminants - Radioactive Contaminants							
Gross alpha, Including RA, Excluding RN & U (pCi/l)	15	15	0.359	N/A	2018	No	erosion of natural deposits
Southwest Water Authority - Detected Regulated Contaminants – Disinfectants							
Chloramines (ppm)	MRDLG = 4	MRDL = 4.0	3.2	2.84 – 3.17	2021	No	water additive used to control microbes
Southwest Water Authority - Detected Unregulated Contaminants²							
Bicarbonate as HCO ₃ (ppm)	N/A	N/A	209	197 – 209	2021	N/A	N/A
Alkalinity, Carbonate	N/A	N/A	3	ND – 3	2021		
City of Dickinson - Copper and Lead – Sample Test Results							
Copper, (30 samples taken) (ppm)	N/A	AL = 1.3 ppm	90 th % = 0.0631 ppm	N/A	August 2019	Zero (0) sites exceeded AL	household plumbing systems, erosion of natural deposits
Lead, (30 samples taken) (ppb)	N/A	AL = 15 ppb	90 th % = 4.78 ppb	N/A	August 2019	Zero (0) sites exceeded AL	household plumbing systems, erosion of natural deposits
City of Dickinson – Disinfectants and Bacteriological Monitoring Data							
Chloramine (ppm)	MRDL = 4	MRDL = 4.0	2.56 ppm	2.32 – 2.77	2021	No	water additive used to control microbes
Total Coliform Data	0	0	ND	N/A	2021	No	naturally present in environment
City of Dickinson - Stage 2 Disinfection Byproducts							
HAA5 (ppb)	N/A	60	High Comp. = 14 ppb	8.38 – 11.67	2021	No	byproduct of drinking water disinfection
TTHM (ppb)	N/A	80	High Comp. = 9 ppb	5.67 – 9.82	2021	No	byproduct of drinking water disinfection

(MCLG) Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
(MCL) Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.
(MRDLG) Maximum Residual Disinfectant Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
(MRDL) Maximum Residual Disinfectant Level: 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.
(AL) Action Level: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.
(HAA5) Haloacetic Acids: HAA5 includes: dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, trichloroacetic acid
(High Comp.) Highest Compliance Level: The highest level of that contaminant used to determine compliance with a National Primary Drinking Water Regulation.
(ppb) Parts per billion: a measurement of concentration; equal to micrograms per liter (µg/L)
(ppm) Parts per million: a measurement of concentration; equal to milligrams per liter (mg/L)
(µmho/cm) Micromhos per centimeter: a measure of conductivity
(TT) Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
(TTHM) Total Trihalomethanes
(N/A) Not Applicable
(ND) Not Detected
(NTU) Nephelometric Turbidity Units
(Obsvns) Observations/field at 100 power
¹Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicate of the effectiveness of the filtration system.
²The EPA requires testing for certain unregulated contaminates, but has not established enforceable drinking water standards for them. They are monitored to determine whether or not future regulation is warranted.