# City of Ironwood 2022 Annual Drinking Water Report

## Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

#### Do I need to take special precautions?

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 (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

# Where does my water come from?

Our water source is two glacial aquifers, which serve the Big Springs and Spring Creek Well Fields. These six wells range with a depth of 54 feet to 140 feet. The City of Ironwood water supply recently completed a State of Michigan approved wellhead protection plan to protect the public area water supply.

## Source water assessment and its availability

The City of Ironwood recently revised the wellhead protection plan in 2019 that is used to protect the water source. Included in this plan are educational materials for property owners to help protect the water supply such as private well abandonment, use of pesticides and fertilizers, maintaining a septic system, etc. This plan was approved by the State of Michigan.

#### Why are there contaminants in my drinking water?

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 Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (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:

microbial contaminants, such as viruses and bacteria, that 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; and 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 that limit the number 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.

# How can I get involved?

# Information About This Report

If you have any questions about this report or concerning your water quality, please contact Bob Tervonen at (906)932-5050 or Tim Pertile at 932-3631. We want our valued customers to be informed about their water quality. If you want to learn more, please attend any of our regularly scheduled meetings. They are normally held on the second and fourth Monday each month at 5:30 pm in the commission chambers of the Memorial Building at 213 South Marquette Street in Ironwood, MI.

#### **Description of Water Treatment Process**

Your water is treated by disinfection. Disinfection involves the addition of chlorine or other disinfectant to kill dangerous bacteria and microorganisms that may be in the water. Disinfection is considered to be one of the major public health advances of the 20th century.

## **Water Conservation Tips**

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- Take short showers a 5-minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.

- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

### **Source Water Protection Tips**

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

#### **Iron and Manganese Removal**

The City of Ironwood retained the services of SEH (Short, Elliot & Hendrickson), a St. Paul, Minnesota engineering firm with extensive iron and manganese removal experience and Dr. Bill Knocke, professor of civil and environmental engineering at Virginia Tech, for an engineering study of iron and manganese removal for the City's water supply. Their report included opinions and recommendations regarding iron and manganese removal. The City of Ironwood is working with HDR Inc. and Coleman Engineering to design and construc an iron and manganese removal plant. Construction of phase 1 of the 2 phased project is expected to begin in 2023.

#### **Additional Information for Lead**

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. City of Ironwood 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 at http://www.epa.gov/safewater/lead.

The city is obligated to replace any remaining lead service lines in the distribution system at a rate of 5% per year for the next 20 years. Recently, the City of Ironwood was notified that a \$3M grant is earmarked to financially assist the city with this project. City staff is conducting a water service line survey to plan and design this project. Recent inventory of the water service lines show inventory for 407 private water service lines are lead material, 2164 are not lead and 438 are unknown. Public water service line inventory show 41 lines are lead, 2140 are not lead and 851 are unknown. The City of Ironwood will continue to take a survey to determine the material type of the unknown service lines.

# **Water Quality Data Table**

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the number of contaminants in water provided by public water systems. The table below lists all the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

			Detect	Ra	nge				
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	In Your Water	Low	High	Sample Date	Violation	Typical Source	
Disinfectants & Disinfection By-Products									
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)									
Haloacetic Acids (HAA5) (ppb)	NA	60	8.72	7.7	16.4	2022	NO	By-product of drinking water chlorination	

		~= ~		~=	Detect	Ra	nge			
Contaminants		CLG or DLG	ТТ	CL, T, or RDL	In Your Water		High	Sample Date	Violation	Typical Source
TTHMs [Total Trihalomethanes] (ppb)	N	NA		80	65.9	39.5	65.9	2022	NO	By-product of drinking water disinfection
Inorganic Contamin	ants									
Fluoride (ppm)		4		4	0.08	0.08	0.08	2020	NO	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	1	10		10	0.12	0.12	0.12	2022	NO	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (optional) (ppm)	N	NA			15	NA	NA	2020	NO	Erosion of natural deposits; Leaching
Contaminants		MCL	.G		Your Water	Sample Date	Exc	amples eeding AL	Exceeds AL	Typical Source
Inorganic Contamin	Inorganic Contaminants									
Copper - action level at consumer taps (ppm)		1.3	3 1.3		0.4	2022	0		NO	Corrosion of household plumbing systems; Erosion of natural deposits
Inorganic Contaminants										
Lead - action level at consumer taps (ppb)		0		15	0	2022		0	NO	Corrosion of household plumbing systems; Erosion of natural deposits

Per- and polyfluoroalkyl substances (PFAS)								
Regulated Contaminant	MCL, TT, or MRDL	MCLG or MRDLG	Level Detected	Range	Year Sampled	Violation Yes/No	<b>Typical Source of Contaminant</b>	
Hexafluoropropylene oxide dimer acid	370	N/A	ND	N/A	2022	NO	Discharge and waste from industrial facilities	
(HFPO-DA) (ppt)							utilizing the Gen X chemical process	
Perfluorobutane	420	N/A	ND	N/A	2022	NO	Discharge and waste from industrial	
sulfonic acid (PFBS) (ppt)							facilities; Stain-resistant treatments	
Perfluorohexane sulfonic acid (PFHxS)	51	N/A	ND	N/A	2022	NO	Firefighting foam; Discharge and waste	
(ppt)							from industrial facilities	
Perfluorohexanoic	400,000	N/A	ND	N/A	2022	NO	Firefighting foam; Discharge and waste	
acid (PFHxA) (ppt)							from industrial facilities	
Perfluorononanoic acid (PFNA) (ppt)	6	N/A	ND	N/A	2022	NO	Discharge and waste from industrial	
							facilities; Breakdown of precursor compounds	
Perfluorooctane sulfonic acid (PFOS)	16	N/A	ND	N/A	2022	NO	Firefighting foam; Discharge from electroplating facilities; Discharge and waste	
(ppt)							from industrial facilities	
Perfluorooctanoic acid (PFOA) (ppt)	8	N/A	ND	N/A	2022	NO	Discharge and waste from industrial	
						NO	facilities; Stain-resistant treatments	

# **Undetected Contaminants**

The following contaminants were monitored for, but not detected, in your water.

Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	Your	Violation	Typical Source
Cyanide (ppb)	200	200	ND		Discharge from plastic and fertilizer factories; Discharge from steel/metal factories
Nitrite [measured as Nitrogen] (ppm)	1	1	ND		Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Unit Descriptions							
Term	Definition						
ppm	ppm: parts per million, or milligrams per liter (mg/L)						
ppb	ppb: parts per billion, or micrograms per liter (μg/L)						
NA	NA: not applicable						
ND	ND: Not detected						
NR	NR: Monitoring not required but recommended.						

Important Drinking Water Definitions							
Term	Definition						
MCLG	MCLG: Maximum Contaminant Level Goal: 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.						
MCL	MCL: Maximum Contaminant Level: 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.						
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.						
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.						
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.						
MRDLG	MRDLG: Maximum residual disinfection level goal. 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.						
MRDL	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.						
MNR	MNR: Monitored Not Regulated						
MPL	MPL: State Assigned Maximum Permissible Level						

# For more information please contact:

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