

HAWTHORNE WATER SYSTEM



**CONSUMER CONFIDENCE REPORT 2024
FOR CALENDAR YEAR 2023**

HAWTHORNE UTILITIES

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. It is important that customers be aware of the efforts that are continually being made to improve their water systems. To learn more, please attend any of the regularly scheduled meetings. **For more information please contact George Dean at 775-945-2486.**

Your water comes from:

Source Name	Source Water Type
Whiskey Flat Well 1	Ground Water
Whiskey Flat Well 2	Ground Water
Whiskey Flat Well 3	Ground Water
I Street Well	Ground Water
Babbitt Well 7	Ground Water

We treat your water to remove several contaminants and we add disinfectant to protect you against microbial contaminants. The Safe Drinking Water Act (SDWA) requires states to develop a Source Water Assessment (SWA) for each public water supply that treats and distributes raw source water in order to identify potential contamination sources. The state has completed an assessment of our source water. For results of the source water assessment, please contact us.

Message from EPA

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 source water before we treat it include:

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

Inorganic contaminants, such as salts and metals, 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 may come from a variety of sources such as storm water run-off, agriculture, and residential users.

Radioactive contaminants, 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, may 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 tested a minimum of 3 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presences 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 by newspaper, television or radio.

Water Quality Data

The tables following below list all of the drinking water contaminants that were detected during the 2023 calendar year. The presence of these contaminants does not necessarily indicate that the water poses a health risk. Unless noted, the data presented in this table is from 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. MCLG’s 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. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology.

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

Treatment Technique (TT): a treatment technique is a required process intended to reduce the level 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.

Maximum Residual Disinfectant Level Goal (MRDLG): 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.

Non-Detects (ND): laboratory analysis indicates that the constituent 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): picocuries per liter is a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU): nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Testing Results for HAWTHORNE UTILITIES

Microbiological	Results	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2023				

Disinfection By-Products	Monitoring Period	RAA	Range	Unit	MCL	MCLG	Typical Source
Samples not taken in the Calendar Year of 2023							

Lead and Copper	Date	90 TH Percentile	Unit	AL	Sites Over AL	Typical Source
COPPER	2011-2020	ND - 0.044	ppm	1.3	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives.
LEAD	2011-2019	0	ppb	15	0	Corrosion of household plumbing systems; Erosion of natural deposits

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ARSENIC	12/26/2022	4	4	ppb	10	0	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
BARIUM	2015-2019	0.04	0.017 - .04	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
CHROMIUM	2015-2019	2	ND - 2	ppb	100	100	Discharge from steel and pulp mills; Erosion of natural deposits.
NICKEL	11/04/2019	0.012	0.006 - 0.012	ppm	0.1	0.1	
NITRATE	12/26/2023	1.4	0.53 – 1.4	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
SELENIUM	11/04/2019	0.006	ND - 0.006	ppm	0.05	0.05	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
SODIUM (NA)	11/29/2022	140	21 - 140	ppm	200	200	Weathering of minerals in the soil, salt bearing geological formations, deposition of salt spray.

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	12/12/2021	1.9	0.728 - 1.9	pCi/L	5	0	Erosion of natural deposits
COMBINED URANIUM	12/26/2023	29	10-29	µg/L	30	0	Erosion of natural deposits
GROSS ALPHA, INCL. RADON & U	11/07/2021	7.33	7.33	pCi/L	15	0	Decay of natural and man-made deposits
RADIUM-226	11/28/2021	0.438	0.264 -0.438	pCi/L	5	0	
RADIUM-228	12/12/2021	1.64	0.29 - 1.64	pCi/L	5	0	

Secondary Contaminants	Collection Date	Highest Value	Range	Unit	SMCL	MCLG
CHLORIDE	12/22/2022	89	15-89	ppm	400	
COLOR	12/22/2022	15	ND-15	Color Units	15	
COPPER	12/22/2022	0.002	0.001-0.002	ppm	1	
FLORIDE	12/22/2022	1.3	0.16-1.3	ppm	4	
IRON	12/22/2022	1.1	ND-1.1	ppm	0.6	
MAGNESIUM	12/22/2022	12	3.2-12	ppm	150	
MAGANESE	12/22/2022	0.019	ND-0.019	ppm	0.1	
PH	12/22/2022	7.94	7.71-7.94	PH	8.5	
SODIUM	11/28/2021	150	23-150	ppm	200	
SULFATE	12/22/2022	370	27-370	ppm	500	
TDS	12/22/2022	730	160-730	ppm	1000	20

Health Information About Water Quality

The State of Nevada has set forth a more stringent MCL of 2.0 mg/L for Fluoride than the federal limit of 4.0 mg/L assigned nationally. Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of the teeth of children, usually in children less than nine years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

* Note- Arsenic compliance is determined with a running annual average.

Your water meets EPA's standard for Lead, but if present at elevated levels, this contaminant 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 Hawthorne 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 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>.

Violations

During the 2023 calendar year, HAWTHORNE UTILITIES is required to include an explanation of the violation(s) in the table below and the steps taken to resolve the violation(s) with this report.

The Hawthorne Water System exceeded the Secondary Inorganic Chemical for the below mentioned compounds in 2022. We will return to compliance by sampling and additional monitoring for these constituents when the I Street Well is back in service, and through issuance of this Public Notice.

The Hawthorne Water System missed the routine monitoring sample period for the Disinfection By-Products for the below mentioned compounds in 2023. We will return to compliance by sampling during the compliance period in 2024.

Type	Source Name	Category	Analyte	Compliance Period
MCL EXCEEDENCE	I Street Well (WO2)	MCL	IRON	08/31/2023 - 10/31/2023
MONITORING ROUTINE MAJOR	DISTRIBUTION SYSTEM	MON	TOTAL HALOACETIC (HAA5)	07/31/2023
MONITORING ROUTINE MAJOR	DISTRIBUTION SYSTEM	MON	TTHM	07/31/2023

Health Information About the Above Violation(s)

Iron is mostly an aesthetic issue. Noticeable effects related to iron concentrations above the SMCL include rusty water color; sediment; metallic taste; and reddish or orange staining of plumbing fixtures. Gastrointestinal irritation, in some individuals, can be caused by high Iron levels.

Unresolved Significant Deficiencies

All significant deficiencies listed below were noted during the 2022 Sanitary Survey of our system and require corrective action. We were to outline the course of action that has or will be taken within 30 days of notification, and the proposed date to correct the deficiencies.

ST01: Contamination Protection; The storage facility must be maintained to prevent pollution and contamination by way of leaks and openings (prevent entrance of rain, surface water, dust, birds, insects, and other animals). NAC 445A.6708.4 and 445A.67095; 2

Comment: This is an unresolved deficiency from 2019

The reservoir liner is in poor condition. Please replace the liner so the reservoir can function as designed.

Action Taken: The ST01 reservoir tank with deficiencies is not in use and these deficiencies are not a current risk to the water quality.

ST02: Contamination Protection; The storage facility must be maintained to prevent pollution and contamination by way of leaks and openings (prevent entrance of rain, surface water, dust, birds, insects, and other animals). NAC 445A.6708.4 and 445A.67095; 2

Comment: This is an unresolved deficiency from 2019.

The seals around the entire tank are failing. There are some places where the sealant has worn completely through and is open to the atmosphere. There is no gasket on the manhole cover. There were spider webs inside the cover. Install gasketing on the roof access hatch to ensure a watertight seal. Due to the general poor conditions of this tank, replacement options should be discussed.

ST02: Material Compatible with Drinking Water; Storage facility materials and coatings must be approved for drinking water. NAC 445A.67075; 17

Comment: This is an unresolved deficiency from 2019.

The inside of the roof of the tank is rusting significantly. Due to the general poor conditions of this tank, replacement options should be discussed.

Action Taken: The ST02 concrete tank with deficiencies is not in use and these deficiencies are not a current risk to the water quality.

12/12/23 **ST04** tank was inspected and cleaned but there were two action-based recommendations that have not been completed. The roof entry hatch safety rail has corrosion on the bottom sides and one truss at the 9 o'clock position has extensive corrosion up against the shell.

Additional Information

How can I get involved?

Water Conservation is everybody's responsibility.

Water Conservation Tips:

Did you know that the average U.S. household used 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 can 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/water sense for more information.

Hawthorne Utilities- Mineral County is an equal opportunity employer & provider