

We constantly strive to provide our customers with a safe and dependable drinking water supply and would like you to be aware of the process we consistently practice to improve the treatment of our water and the protection of our sources. Our experienced staff is committed to delivering the highest quality water to you possible. You will see in our Test Results table on the next page the quality of water provided to every tap. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

### **No water is free of all impurities.**

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some constituents or impurities; their presence does not necessarily indicate that the water poses a health risk. More information about water safety and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

### **BE INVOLVED!**

We encourage our customers to take an active interest in their water. If you have any questions about this report or the water we are supplying, please contact the water division manager, Van Bond, at 801-772-4515. We want our valued customers to be informed about their water utility. Additionally, we invite you to attend our public meetings to learn more about our water utility. Those meetings are held on the first and third Tuesdays of each month at 7:00 pm at the Highland City Office.



**HIGHLAND CITY**

5400 W Civic Center Dr, Suite 1  
801-756-5751  
HIGHLANDCITY.ORG

# REPORT of WATER 2022 Quality

Highland City is asking all its residents to please water their yards wisely. While we had an amazing snowfall with record numbers this past winter, we are also overcoming extreme drought situations statewide. Additionally we are bracing for the usual record heat this summer.

It's easy to get in the habit of just setting the sprinkler clock and walking away, not thinking about it for the remainder of the summer. Residents are encouraged to actively monitor watering and maybe cut out a watering day here or there throughout the summer season as weather and conditions permit. **Allowing the soil to dry out can actually be beneficial in preventing fungus that infects many yards.**

An excellent resource to help determine how often to water is the Utah Division of Water's Weekly Watering Guide published at [conservewater.utah.gov](http://conservewater.utah.gov) and on Facebook @conserveutahwater. You can also find other resources such as how to do your own water check on your sprinkler system, rebate programs for taking water conservation steps, waterwise landscaping, and how to "flip your strip" from grass to a water-wise strip.

## **THE WATERING SCHEDULE FOR 2023 IS AS FOLLOWS:**

### **EVEN NUMBERED STREET ADDRESS:**

Monday, Wednesday, and Friday

### **ODD NUMBERED STREET ADDRESS:**

Tuesday, Thursday, and Saturday

No Sunday Residential Watering, allowing the storage facilities to fill.

Watering hours shall be from 6:00 p.m. on the assigned day to 10:00 a.m. the following day.

We're pleased to report our drinking water  
**MEETS OR EXCEEDS**  
all Federal and State requirements.





## LEAD Awareness

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. 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 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).

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. We 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>.

## TABLE Definitions

**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.

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

**Low Number - High Number** – lowest and highest level of contamination measured between all system water sources.

**ppm** - parts per million or milligrams per liter (mg/l) which ratio is equal to one dollar in \$1,000,000

**ppb** - parts per billion or micrograms per liter (ug/l) which ratio is equal to one dollar in \$1,000,000,000.

**pCi/L** - picocuries per liter is a measure of the radioactivity in water.

**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.

*In addition to the constituents listed in the table to the right, we also test for over 65 others.*

**NONE** were detected

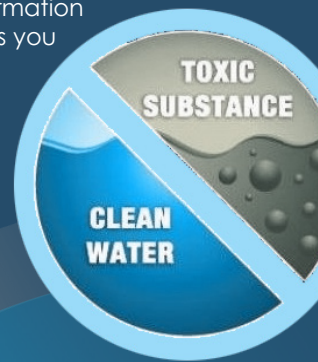
## DETERMINATION OF CONTAMINANT Levels

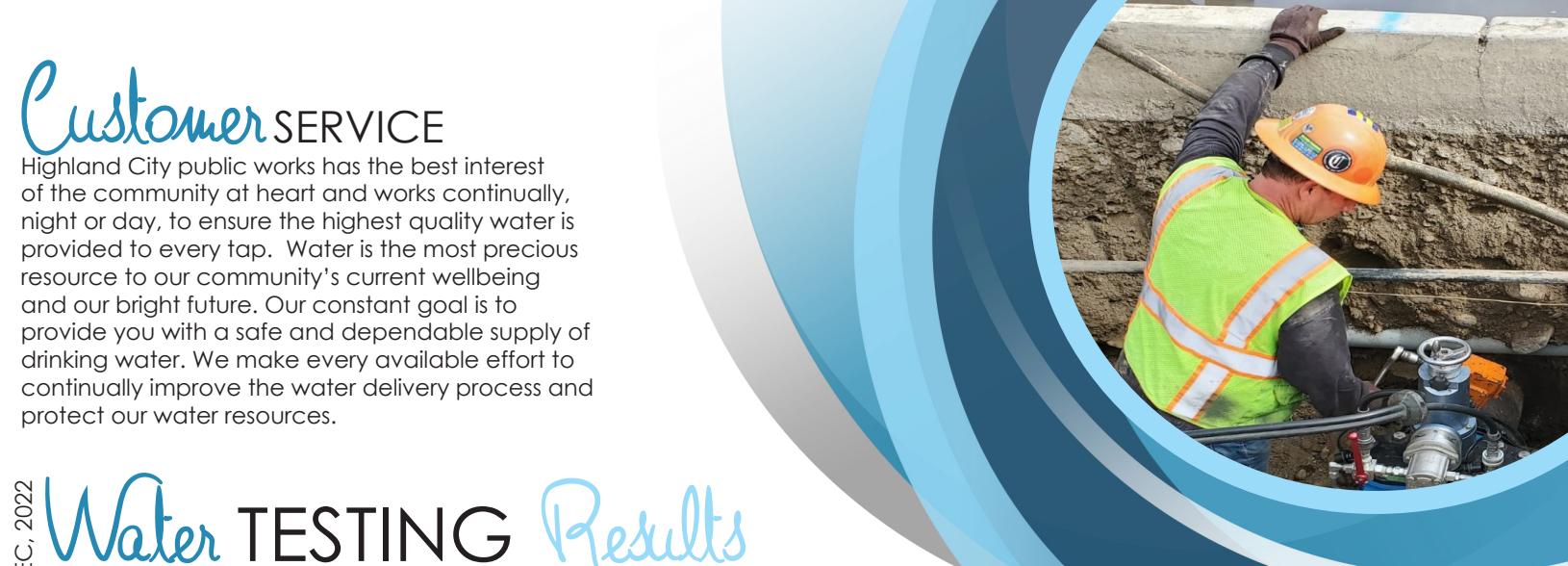
The state and federal government imposes the highest level of concern for the quality of drinking water, and has set the MCLs at very strict levels. To illustrate the possible health effects, a person would have to drink over 2 quarts of water with the contaminant at the MCL level every day of their life to have a 0.000001% chance of having the described health effect. All drinking water, **including bottled drinking water**, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these impurities do not necessarily pose a health risk. Should there be a concern for your safety, we will contact you and let you know the appropriate action to take to continue to have safe drinking water.

## CROSS Connection

Our water distribution system has many connections. Concerns for adverse effects to the system are minimal when those connections are properly installed and maintained. The supply and the quality of water may be affected if connections are made to the system that are unapproved or improperly installed; otherwise referred to as a cross connection. Cross connections can allow contaminated water or chemicals to intersperse into the water supply if the connection is not properly protected. Improper connections not only compromise the water quality but can also affect you and your family's health.

What can be done by you, our customer, to alleviate this problem? Do not make or allow improper or unapproved connections at your homes. Something as seemingly harmless as an unprotected garden hose lying in the puddle next to the driveway is a cross connection. The unprotected lawn sprinkler system after you have fertilized or sprayed is also a cross connection. Determine and avoid all possible ways harmful substances could find a route to your drinking water; cross connection allowed at your home will affect you and your family first. If you'd like to learn more about helping to protect the quality of our water, call us for further information about ways you can help.





# Customer SERVICE

Highland City public works has the best interest of the community at heart and works continually, night or day, to ensure the highest quality water is provided to every tap. Water is the most precious resource to our community's current wellbeing and our bright future. Our constant goal is to provide you with a safe and dependable supply of drinking water. We make every available effort to continually improve the water delivery process and protect our water resources.

## Water TESTING Results

TESTING DATES: JAN - DEC, 2022

Contaminant	Violation Y/N	+ Sample Count		MCLG	MCL	Date Sampled	Likely Source of Contamination
TCR TABLES - COLIFORM BACTERIA & MICROBIOLOGICAL CONTAMINANTS							
Total Coliform Bacteria	N	1		0	5	2022	Naturally present in the environment
E. Coli	N	0		0	None	2022	Human and animal fecal waste.
Contaminant	Violation Y/N	Level Detected ND/Low-High	Unit Measurement	MCLG	MCL	Date Sampled	Likely Source of Contamination
RADIOACTIVE CONTAMINANTS							
Alpha Emitters	N	4.7 - 6.4	pCi/L	0	15	2019, 2022	Erosion of natural deposits
Radium 228	N	0 - 0.25	pCi/L	0	5	2019, 2022	Erosion of natural deposits
TURBIDITY							
Turbidity for Ground Water	N	0.1 - 3.65	NTU	0	0.30	2019, 2022	Soil Runoff
REGULATED INORGANIC CONTAMINANTS							
Arsenic	N	0 - 0.5	ppb	0	10	2019, 2022	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	N	50 - 176	ppb	2000	2000	2019, 2022	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Cyanide	N	0 - 6.4	ppb	200	200	2019, 2022	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	N	0 - 216	ppb	4000	4000	2019, 2022	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate	N	0 - 3291	ppb	10,000	10,000	2022	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	N	0.6 - 2.9	ppb	50	50	2019, 2022	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N	6.025 - 19.087	ppm	500	none set by EPA	2019, 2022	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mine
Sulfate	N	30.588 - 104.466	ppm	1000	1000	2019, 2022	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills, runoff from croplan
Total Dissolved Solids (TDS)	N	240 - 348	ppm	2000	2000	2019, 2022	Erosion of natural deposit
LEAD AND COPPER							
Lead	N	90% tiles: 2.2 0 - 228.8	ppb	0	AL=15	2021	Corrosion of household plumbing systems, erosion of natural deposits
				Number of Sites over Action Level = 2			
Elevated lead levels were detected in two home samples and the property owners were notified. The citywide water system did not show elevated levels of lead.							
Copper	N	90% tiles: 141 27 - 922	ppb	1300	AL=1300	2021	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
				Number of Sites over Action Level = 0			

Report Designed by Diana Waite



## LET'S TALK WATER CONSERVATION

With record *snowfall* do we really still need to conserve?

SHORT ANSWER: *Yes!*



*Why do we need to Conserve?*

### 1. STRENGTHEN COMMUNITIES.

We live in an amazing community filled with our family and friends. As we take the opportunity to support the goal of conservation, we build mutual trust and respect for one another. Living in such a way that allows for us all to use the water we need fosters the feelings of belonging and unity.

### 2. RECOVER FROM & PREPARE FOR FUTURE DROUGHTS.

Utah has experienced years of serious drought conditions. As we continue to modify our water use we can recover quicker and guard against future droughts.

### 3. GUARD AGAINST RISING COSTS

Keeping usage prudent to what is needed will help reduce the costs for us to provide water to our patrons as well as the costs you pay to access water.

### 4. PRESERVE THE ENVIRONMENT.

We've seen in the shrinking of our lakes that lower water levels can contribute to higher concentrations of natural and human pollutants. Protecting water in the environment also allows wildlife to survive.

### 5. ALLOWS MORE RECREATIONAL FUN AND ENJOYMENT.

Less water going down the drain means more water available in the lakes, rivers, and streams. Many in our state and community enjoy that water in fun recreational activities.

## 2022 WATER USAGE

↑ 6.3%  
from 2021

During 2022, Highland City supplied over 525 million gallons of water to its residents and commercial users. That equates to:

  
5,525,000  
total gallons  
pumped

  
1,439,877  
gallons per day

  
59,995  
gallons per hour

  
1 min  
999.91  
gallons per  
minute

  
01  
SEC  
16.67  
gallons per  
second

LEARN MORE  
ABOUT SOURCE PROTECTION



# GROUNDWATER IS IMPORTANT TO EVERYONE

All drinking water provided to Highland City residents comes from groundwater; therefore, it is essential that we protect that vital water source. Groundwater can become contaminated by various activities such as the residential application of fertilizers and pesticides. When applying fertilizers and pesticides, make certain that your spreader is calibrated correctly to avoid applying too much product. Over watering can also cause excess water to move through the soil flushing fertilizer away from the root zone and into the ground water.

*Please help us protect our precious drinking water resources by: Implement Best Management Practices for pollution prevention and for household hazardous waste by following the fact sheets found at Utah DDW - Household Pollution Prevention (pdf). Use pesticides, herbicides, and fertilizers in accordance with the manufacturer's recommendations and Implement Best Management Practices following the fact sheets found at Utah DDW - Fertilizer Pollution Prevention (pdf) and Utah DDW - Pesticide Pollution Prevention (pdf)*

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/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791). The Drinking Water Source Protection Plan for Highland City is available for your review. It contains information about source protection zones, potential contamination sources and management strategies to protect our drinking water. Our water sources have been determined to be from ground water, and have been determined to have a low level of susceptibility from potential contamination. We have also developed management strategies to further protect our sources from contamination. Please contact us if you have questions or concerns about our source protection plan.

### WATER SOURCES

We have five culinary wells that serve our city. These wells are generally located within the heart of centralized Highland. The approximate well locations are:

- Well #1 – 10535 N
- Well #2 – 11000 N
- Well #3 – 10400 N
- Well #4 – 11200 N
- Well #5 – 11800 N