

# HAYDEN LAKE IRRIGATION DISTRICT

## 2023 Annual Drinking Water Quality Report

**Please friend us on Facebook to receive the most up-to-date information/notifications, or visit our new website for information on your water District. Click on News/Emergencies for up-to-date information.**

This report provides information regarding your water and the contaminants we monitor. We hope you will take a few moments to review the information about your water and would like to bring the following information to your attention:

- Contaminants detected in the water within the past five years are included in the enclosed report. Only the most recent results will be shown if multiple samples are taken during five years. Earlier monitoring results are available on our website, [www.haydenirrigation.com](http://www.haydenirrigation.com); click *Drinking Water Quality Report* under *Your Water* and select the desired year for information.
- The District had no monitoring violation for coliform bacteriological sampling presence in 2023.
- Rest assured, the District is committed to your water safety. We will continue to low-dose disinfect (chlorinate) our system annually in October for one week to ensure our staff is adequately trained and our equipment is working correctly. The District staff will quickly flush the chlorine out of the system the following week. If your water has an odor or taste after November 1<sup>st</sup>, please call or email the District office. The District contact information is listed above.
- The water we provide is “moderately hard” to “hard,” as the last table of this report indicates. If you prefer softer water, a water softener may be an option.
- We are thrilled to announce that the District’s new elevated reservoir will be operational in 2023. This is a significant milestone, and we extend our heartfelt thanks to our customers for their unwavering support.
- The District, with a clear vision for the future, received a 1.7 million dollar grant to help replace, relocate and loop our trunk line out of backyards and into the public right of way. We understand the inconvenience of road construction. Please be assured, we are working diligently to minimize disruption, and it will be over before you know it.

## 2023 Annual Drinking Water Quality Report

This report is designed to inform you about the water quality and the service we deliver daily. We aim to provide our customers with a safe and dependable drinking water supply. We want you to understand our efforts to continually improve and protect our water resources. This report covers the period from January to December 2023.

We value our customers. If you have any questions concerning your water or the District, please contact our District Administrator, Branden Rose, at (208) 772-2612.

If you wish to learn more about your District. In that case, you may attend any of our regularly scheduled Board meetings held on the first Tuesday of every month at 5:00 p.m. Meetings are held at the District office at 2160 West Dakota Avenue in Hayden.

Our water comes from the Rathdrum-Prairie Aquifer. This Aquifer serves over 500,000 people in the surrounding region and is a reliable source of drinking water. Please help to maintain the water's quality by using fertilizers and pesticides wisely, recycling used oil and other chemicals, and maintaining septic and stormwater systems. These steps benefit all the residents who depend on the aquifer.

**We rely on you to help us prevent harmful contamination of the drinking water system.**

- You can help us accomplish this by completing the annual testing of all backflow prevention assemblies on your property. The District and the State of Idaho require yearly testing of all backflow assemblies by a certified tester. Our website has a list of testers who meet the District requirements.
- Do not fill or remove your swales; a drywell may be installed in the middle of the swale. However, when it rains, grassy swales filter the oils and toxins from the streets. Dry wells are intended when the swale becomes flooded from an excessive rain flow and the swale cannot filter the runoff fast enough. A dry well rim elevation should be 2-4 inches above the bottom of the swale. Do not use dry wells for dumping. Don't spray weed killers or fertilize around the drywell grate. A dry well does not filter organics or remove the toxins before they reach our drinking water.
- Do not overwater your lawns. Overwatering only washes your fertilizers down to our drinking water. Let your lawn use up the expensive fertilizers.

Hayden Lake Irrigation District routinely monitors for contaminants in your drinking water by State and Federal Rules. All drinking water, including bottled water, may contain small contaminants. The presence of contaminants does not necessarily mean the water poses a health risk. More information about contaminants and their potential health effects can be obtained by calling the [Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791](tel:1-800-426-4791) or [researching online at www.epa.gov/safewater](http://www.epa.gov/safewater)

The following tables describe the contaminants detected in our water within the past five years. Only the most recent results will be shown if multiple samples are taken during five years. The District samples for many additional contaminants; however, they were not detected in laboratory analysis of the water samples.

Contaminant	Sample Date(s)	Well 1	Dakota Wells 1,2 & 3	Larix Well 4	Carring Well #5	MCL	MCLG	Violation ?	A typical source of Contaminant
Nitrate	2022 2023	.455 .542	.446 .523	.448 1.18	1.77 2.07	10	10	No	Runoff from Fertilizer/ Leaching from Septic Tanks/ Sewage/ Erosion of Natural Deposits
Arsenic	2016 2017 2020	.0019	0.0017	0.0033	.0022	.010	0	No	Erosion of natural deposits/ Runoff from Orchards/ Glass/ Electronics Production Wastes
Sodium	2019 2022	2.78 2.63	2.38	5.47 2.48	2.56	N/A	N/A	No	Erosion of Natural Deposits/ Discharge from Fertilizer/De-ice
Barium	2019 2020		ND	0.036	.041	2	2	No	Some people who drink water containing barium over the MCL over many years could experience an increase in their blood pressure.
Radiological Gross Alpha	<i>Note: 1</i>	<i>Note: 1</i>	<i>Note: 1</i>	<i>Note: 1</i>	<i>Note: 1</i>	15	0	No	Erosion of Natural Deposits
Radiological Uranium	<i>Note: 1</i>	ND	ND ND	4.81 (ug/L)	4.72 (ug/l)	30 (ug/l)	0	No	Erosion of Natural Deposits

**Note 1: Radiological monitoring**

Well # 1: 2022: R-226 <0.195+/-0.075; R-228 ND <0.187+/-0.357; Alpha ND +/-1.68  
 Wells 1,2&3: 10/23/2017: R-226 <0.2+/-0.0289; R-228 .115 +/-0.190; Alpha .530+/-0.467  
 Well # 4: 9/22 R-226.<.195+/-0.075 R228<.186+/-0.357 Alpha <3.00 +/- .809  
 Well #5: 9/22/2020: R-226 <01.00+/-0.0487; R-228 .614 +/-0.432; Alpha <4.59+/-0.836

**Lead and copper sampling is conducted every three years. These are the results of our most recent sampling:**

Contaminant	# of Samples	Date(s)	Our water 90 <sup>th</sup> percentile results	Range of detection	Action Level	MCLG
Lead	20	2022	.0014 (ppb)	ND to .0023 (ppb)	15 (ppb)	0 (ppb)
Copper	20	2022	0.039(ppm)	ND to 0.113 (ppm)	1.3 (ppm)	1.3 (ppm)

Well	Calcium	Magnesium	Hardness	pH	Alkalinity	Iron	Dissolved Solids	Langier Index	Total Organic Carbon
1	20.2	4.8	70.1	8.16	76.7	ND	92	-0.400	0.40
1,2 & 3	24.2	5.93	4.57	8.07	99.8	.031	104	-.3014	0.34
4	39.8	29.6	221	7.74	208	ND	237	-0.129	0.49
5	30.1	16.9	8.13	8.03	120	ND	120	-1792	NA

**The following list explains some of the technical terms and assists in understanding the tables provided above:**

- **MCL:** Maximum Contaminant Level is in milligrams per liter (mg/l) unless otherwise specified. One milligram per liter equals one part per million (ppm). Put another way, one ppm equals one part of contaminant per one million parts of drinking water.
- **MCLG:** Maximum Contaminant Level Goal is 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.
- **mg/L:** represents milligrams per liter; one mg/L is equivalent to one part per million (ppm), or one penny in \$10,000.
- **ug/L:** represents micrograms per liter; one ug/L equals one part per billion (ppb), or one penny in \$10,000,000.
- **Radiological** contaminants are expressed in picocuries per liter (pCi/L) unless otherwise specified.
- **Total Coliform** is monitored monthly by taking seven samples from various locations in the District’s water distribution system. At least two samples must show the presence of coliform bacteria for a violation to have occurred.
- **Lead and Copper:**
  - Testing is completed at specific homes within the District.
  - The 90<sup>th</sup> percentile of results is the reportable level.
    - This means that 90% of all results are at or below (less than) the reported level.
  - **Action Level: this** is the point at which the District must take action to reduce lead or copper levels in the water.
- **ND:** means non-detect; this means that the contaminant was below the laboratory's ability to measure that contaminant reliably.

**Maximum Contaminant Level (MCL)** is the highest contaminant level allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology. MCLs are set at very stringent levels. To understand the possible health effects of many regulated contaminants, a person would have to drink 2 liters of water daily at the MCL level or greater for a lifetime to have a one-in-a-million chance of experiencing the described health effects. Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people such as a person with cancer undergoing chemotherapy, people who have undergone organ transplants, 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 healthcare providers. EPA/CDC guidelines on appropriate methods to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791) or online at <http://www.epa.gov/safewater>.

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 land's surface or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material. It can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, wildlife, and nature.
- Inorganic contaminants, such as salts and metals, can naturally occur or result from urban stormwater runoff, industrial or domestic wastewater discharge, oil and gas production, mining, farming, or road de-icing.
- Pesticides and herbicides may come from various sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, are byproducts of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants can naturally occur or result from oil and gas production and mining activities.

To ensure tap water is safe to drink, the EPA regulates the limit of specific contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. The District water quality met the EPA's requirements in 2023.

**Please help us conserve your natural resources:**

We recommend that sprinkler systems be set to water every other day. Lawns need not be watered daily; watering will make a deeper rooting system every other day. This is optional and only recommended.

If you have any questions, please call 208-772-2612 or e-mail [district@haydenirrigation.com](mailto:district@haydenirrigation.com)

2160 W. Dakota Ave. Hayden, Idaho 83835-5122

Office Hours Monday -Thursday 7 am -5:30 pm  
(208) 772-2612