

LAKE HAVASU CITY, ARIZONA

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2024 Annual

Drinking Water Quality Report

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Este reporte contiene información importante sobre su agua para tomar. Si no entiende ingles, por favor busque a alguien que le traslada el reporte y le explique la información a usted.

The annual Consumer Confidence Report is mandated by the United States Environmental Protection Agency (EPA), as a means of sharing information with residents regarding Lake Havasu City's water quality. This report is designed to give you, the consumer, all pertinent information relative to the production and distribution of safe drinking water for Lake Havasu City.

Our Water Source

Our groundwater supply draws water from the Colorado River Aquifer, with an annual allocation of 28,581 acre-feet or 9.3 billion gallons of water a year. The City's 11 groundwater wells are the source of drinking water and are capable of producing 45 million gallons per day (MGD). Lake Havasu City distributes its water through 538 miles of water distribution lines ranging from 4-inches to 48-inches in diameter serving just over 33,000 residential and commercial water services. Twenty-seven water tanks totaling 22.4 million gallons of water storage serve the City's seven pressure zones.

Drinking Water Sources

The sources of drinking water (both tap 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. 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.

Drinking Water Contaminants

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 that 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:

Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources.

Organic chemical contaminants:

Such as synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production and may come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants:

That can be naturally occurring or can be the result of oil and gas production and mining activities.

Vulnerable Population

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.

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, persons 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. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants, call the EPA Safe Drinking Water Hotline, 1-800-426-4791 or by visiting, www.epa.gov/sdwa.

Source Water Assessment (High Risk)

Based on the information currently available on the hydro-geologic settings and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the Arizona Department of Environmental Quality (ADEQ) has given a high-risk designation for the degree to which this public water system drinking water sources are protected. A designation of high risk indicates there may be additional source water protection measures, which can be implemented on the local level. This does not imply that the source water is contaminated nor does it mean that contamination is imminent. Rather, it simply states that land use activities or hydro-geological conditions exist that make the source water susceptible to possible future contamination. Further source water assessment documentation can be obtained by contacting ADEQ.

Water Sampling

Contaminants in your drinking water are routinely monitored according to Federal and State laws. The State of Arizona requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Some data, though representative, may be more than one-year-old.

Water Treatment Plant

Lake Havasu City's water treatment plant is designed for a production capability of up to 26 million gallons per day (MGD). Water was produced at an average of 12.87 MGD in 2024 to satisfy the City's potable water needs. The plant is designed primarily to remove manganese from Lake Havasu City's drinking water supply and to reduce arsenic levels to meet the EPA established Maximum Contaminant Level standard of 10 parts per billion (ppb or ug/L). We are pleased to report that manganese is reduced to a virtual "non-detect" level, with the treatment process removing approximately 104,380 pounds of manganese from the City's water in 2024. The treatment process lowers arsenic levels well under the federal standard.

Definitions

Action Level (AL):

The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements.

Level 1 Assessment:

A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present.

Level 2 Assessment:

A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria was present Level.

Maximum Contaminant Level (MCL):

The highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal (MCLG):

The level of a contaminant in drinking water below which there is no known or expected risk to health.

Maximum Residual Disinfectant Level (MRDL):

The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG):

The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur.

Million fibers per liter (MFL):

Measure of Asbestos.

Millirems per year (MREM):

A measure of radiation absorbed by the body.

Minimum Reporting Limit (MRL):

The smallest measured concentration of a substance that can be reliably measured by a given analytical method.

Nephelometric Turbidity Units (NTU):

A measure of water clarity.

Not Applicable (NA):

Sampling was not completed by regulation or was not required.

Not Detected (ND or <):

Not detectable at reporting limit.

Picocuries per liter (pCi/L):

Measure of the radioactivity in water.

ppb:

Parts per billion or Micrograms per liter (µg/L).

ppm:

Parts per million or
Milligrams per liter (mg/L).

ppq:

Parts per quadrillion or
Picograms per liter (pg/L).

$\begin{aligned} \text{ppm} \times 1000 &= \text{ppb} \\ \text{ppb} \times 1000 &= \text{ppt} \\ \text{ppt} \times 1000 &= \text{ppq} \end{aligned}$
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ppt:

Parts per trillion or Nanograms per liter (ng/L).

Treatment Technique (TT):

A required process intended to reduce the level of a contaminant in drinking water.

Lead Information Statement

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. Lake Havasu City is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water.

To address lead in drinking water, public water systems were required to develop and maintain an inventory of service line materials by Oct 16, 2024. Developing an inventory and identifying the location of lead service lines (LSL) is the first step for beginning LSL replacement and protecting public health. The lead service inventory may be viewed online at <https://www.lhcaz.gov/utilities>. Please contact us if you would like more information about the inventory or any lead sampling that has been done. If you are concerned about lead in your water and wish to have your water tested, contact Lake Havasu City Water Division; phone: (928) 855-2618, address: 900 London Bridge Rd. Lake Havasu City, AZ 86404. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Water Quality Data – Regulated Contaminants

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination	
E. Coli	N	0	N/A	0	0	Human and animal fecal waste.	
Fecal Indicator (From GWR source) (coli phage, enterococci and/or E.coli)	N	0	N/A	0	0	Human and animal fecal waste.	
Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine (ppm)	N	0.83	0.38 - 1.29	4.0	4.0	12 / 2024	Water additive used to control microbes.
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Halo acetic Acids (HAA5) (ppb)	N	7.18	4.1 - 11	60	N/A	11 / 2024	Byproduct of drinking water disinfection.
Total Trihalomethanes (TTHM) (ppb)	N	47.94	33 - 80	80	N/A	11 / 2024	Byproduct of drinking water disinfection.
Lead & Copper	MCL Violation Y or N	90th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	0.20	0	1.3	1.3	09 / 2023	Corrosion of household plumbing systems; erosion of natural deposits.
Lead (ppb)	N	3.1	1	15	0	09 / 2023	Corrosion of household plumbing systems; erosion of natural deposits.

Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Uranium (µg/L)	N	13.5	13.5	30	0	01 / 2020	Erosion of natural deposits.
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Arsenic ¹ (ppb)	N	3.73	3.3 – 4.3	10	0	10 / 2024	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes.
Barium (ppm)	N	0.040	0.040	2	2	01 / 2023	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits.
Fluoride (ppm)	N	0.78	0.78	4	4	01 / 2023	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Inorganic Chemicals (IOC) cont.	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Nickel (ppm)	N	<.01	<.01	NONE	NONE	01 / 2023	Erosion of natural deposits.

Nitrate ² (ppm)	N	1.7	1.7	10	10	01 / 2024	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium (ppb)	N	2.0	2.0	50	50	01 / 2023	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Sodium (ppm)	N	150	150	NONE	NONE	01 / 2023	Erosion of natural deposits.

¹ **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

² **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Secondary Drinking Water Guidelines

Water Hardness	Units	Average	Range of All Samples (Low-High)	Secondary Guideline*	Description
Total Hardness	Grains Per Gallon	19.23	18.5 - 20.1	N/A	The presence of minerals, such as calcium and magnesium, which occur naturally through contact with source water.
Total Dissolved Solids (TDS)	PPM	776	749-814	500	The measurement of all dissolved solids in a water.

*Non-Enforceable Guidelines Recommended by EPA

Assessments for the Revised Total Coliform Rule (RTCR)

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. If coliform is found, then the system is responsible to look for potential problems in water treatment or distribution. When this occurs, the water system is required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

ADEQ Violations

Violation Type	Issue Date	Explanation	Corrective Action
Minor Violation Late Reporting #2024-23459	May 30th, 2024	Maximum Residual Disinfection Level report was revised and the amended form was submitted after the original due date	Revised report submitted after original due date

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards.

Lake Havasu City's drinking water is in compliance with all State and Federal drinking water standards

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Lake Havasu City residents concerned about the quality of water in Lake Havasu City, or with questions regarding the information contained in this report, may contact:

Lake Havasu City – Water Division
Joshua Riddle, Utility Supervisor
(928) 855-2618

All water consumers may learn more about the City's efforts to provide safe drinking water by attending the regularly scheduled City Council meetings when water issues or projects are included on the agenda. The City Council meets each month on the second and fourth Tuesday, at 6 p.m., at the Lake Havasu City Police Facility, 2360 McCulloch Boulevard. Agendas for these meetings are posted at City Hall, the Post Office, the police facility, and in the local newspaper.

This report may also be reviewed on the City's web site: www.lhcaz.gov

NEXT REPORT ON SAFE DRINKING WATER: JUNE 30, 2026