



NORTH TAHOE PUBLIC UTILITY DISTRICT ANNUAL WATER QUALITY CONSUMER CONFIDENCE REPORT FOR 2019

To Our Customers: This report contains important information about your drinking water.

Este informe contiene información muy importante sobre la calidad de su agua potable. Por favor lea este informe o comuníquese con alguien que pueda traducir la información.

Where does my water come from?

The North Tahoe Public Utility District services nearly 3,957 connections. These connections include single-family dwellings and business establishments, as well as separate irrigation and fire systems. The District operates three separate and independent water systems: Dollar Cove, Carnelian Bay, and the Tahoe Main system, comprised of Tahoe Vista, Kings Beach, and Brockway to the Nevada State Line. Dollar Cove is currently being supplied through the Tahoe City Public Utility District's Tahoe City system, by agreement of a joint well drilling project of the two Districts that is comprised of five separate wells (groundwater sources). Carnelian Bay draws its water from a single well (groundwater source). The Tahoe Main water system draws water from Lake Tahoe (surface water source) through an intake at the end of National Avenue in Tahoe Vista, as well as a single well (groundwater source) located in the North Tahoe Regional Park at the top of Donner Road. These combined sources supplied just under 361 million gallons of water to our customers in 2019.

How can I keep our drinking water safe and clean?

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 **USEPA's 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 in the environment it dissolves naturally occurring minerals, pick up substances from the presence of animals or human activity, and even radioactive material, in some cases. **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 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**, that are byproducts of industrial process and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; **Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities. To ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) and California Department of Public Health, Division of Drinking Water and Environmental Management (Department), prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. We treat our water according to their

regulations. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Why are there contaminants in my drinking water?

The drinking water that the District treats and provides for its customers comes from wells as well as the open water of Lake Tahoe. Many people don't see the link between the water you drink and the items that are put into the sewer system, but when people dispose of their waste incorrectly, it threatens the safety of our drinking water as well.

In the Tahoe basin, our storm drain system does not put runoff into the sewer system like so many other communities in this country. Most of the storm drains drain directly into the Lake! In addition to protecting our sewers, it is also extremely important that under no circumstances may substances be put directly into the storm drain.

Most liquid and automotive waste (oil, old gasoline) can be disposed of during one of the hazardous waste disposal days provided by Placer County and Tahoe Truckee Sierra Disposal at the Eastern Regional Landfill on Cabin Creek Road off Highway 89.

For Your Information

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These system tables list all the drinking water contaminants that were tested for during the 2018 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1—December 31, 2019. 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 change frequently. See the last page for Terms and Abbreviations used in the report. This full report is available on our website at ntpud.org/ccr

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 Drinking Water Hotline (800-426-4791)**.

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. The North Tahoe Public Utility District 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 running your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Capture and use this water for household or garden plants. 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>

Radon

Radon is a radioactive gas that you cannot see, taste or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water on most cases would be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can cause cancer. Drinking water containing radon may also cause an increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. You should pursue radon removal for your home if the level of radon in your air is four (4) picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-745-7236), the USEPA Safe Drinking Water Hotline (1-800-426-4791), or the National Safety Council on Radon Hotline (1-800-767-7236).

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20% by 2020

The 20% by 2020 state mandate is that all water purveyors reduce their per capita water use by 20% from the average usage of our customers over 10 years in the early 2000's. The way this baseline is calculated is complicated and water leaks within our system also are included in this per capita water usage number. The waterline replacement projects and water leak detection and repair as part of our ongoing maintenance plan will also help to bring the District into compliance. If the District (or any water purveyor) fails to meet this 20% by 2020 mandate, the State has indicated that they will no longer be eligible for state grants.

The amount of water used for irrigation of outdoor landscaping is putting the District out of compliance and not on track to meet this mandate. The District is asking our customers to be vigilant on their outdoor watering and consider these useful tips.

- Don't water every day (it's not necessary!)
- Adjust your irrigation system to accommodate the cooler shoulder season
- Install weather-based smart irrigation controllers or sensors that automatically turn off your system during and after precipitation.

Visit <http://ntpud.org/conservation> for other helpful tips and information on rebates for water-saving appliances and irrigation supplies and free conservation supplies!

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Identify your system >				Tahoe City PUD water supply to NTPUD consists of Highlands Well #1 #2, T.C. Well #2 #3, Tahoe Tavern Well			
Contaminant (UNITS)	Sample Year	MCL	PHG (MCLG)	Tahoe Main System #33110001 Lake Tahoe	System Groundwater Park Well	Carnelian Woods System #3110023 Park Well	Dollar Cove System #3110036 Tahoe City PUD
Detected Compounds The State allows us to monitor contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old. If a substance or contaminant is not listed, it is either not detected limit or not required to sampled.							
Primary Standards							
Arsenic (ppb)	2016	10	0.004	ND	NR	NR	(2014/17)3.7/2.3/ND/3.1/ND
Nickel (ppb)	2016	100	10	ND	ND	ND	(2014)20/20/20/21/20
Microbiological Monitoring							
Total Coliforms (I / A / P)	2019	1	(0)	156T / 156A / 0P		22T / 18A / 4P*	156T / 156A / 0P
E-Coli (I / A / P)	2019	1	(0)	156T / 156A / 0P		22T / 22A / 0P	156T / 156A / 0P
Radioactive							
Radon 222 (pCi/L)	2003	N/A	N/A	NR	NR	NR	547/1190/NS/1230/1120
Radium 228 (pCi/L)	2012	5	0.019	ND/0.000	NR	NR	NR
Gross Alpha (pCi/L)	2017	15	(0)	2.32	NR	NR	NR
Inorganic							
Nitrate - As N (ppm)	2019	1(AS-N)	1(AS-N)	ND	ND	ND	NR
Nitrite - As NO3 (ppm)	2019	45 (NO3)	45 (NO3)	ND	ND	ND	NR
Perchlorate (ppb)	2019	0.006	6	ND	ND	ND	NR
Aluminum (ug/L)	2016	1000	600	ND	ND	ND	NR
Antimony	2016	6	1				NO Discharge from petroleum refineries, fire retardants
Barium (ug/L)	2016	1000	(2) mg/L	17.6	44.2	22.6	NR
Beryllium	2016	4	N/A	ND	ND	ND	NR
Cadmium	2016	5	N/A	ND	ND	ND	NR
Chromium (ug/L)	2016	50	(100)	ND	NR	ND	NR
Fluoride (F) Natural Source	2016	2	N/A	ND	ND	ND	NR
Mercury	2016	2	N/A	ND	ND	ND	NR
Selenium	2016	50	5	ND	ND	ND	NR
Thallium	2016	2	1	ND	ND	ND	NR
Disinfection By-Products							
Chlorine (ppm)	2019	[MRDL=4.0(as Cl2)]		0.31-1.26 Annual RAA = 0.81			Range 0.22 - 0.36 RAA = 0.30
Disinfection By-Products							
Total Trihalomethanes (ppm)	2019	0.080	1000	ND/26			(2017) ND
Haloacetic Acids (ppm)	2019	0.060	1000	8.9/13			(2017) ND
Secondary Standards Established by the State of California, Department of Health Services							
Clarity & Taste							
Turbidity (NTU) - Treated Water	2019	<0.5 NTU	NS	AVG. .104 - .851	NR	NR	2017 0.25/0.45/0.17/0.23/0.19
Turbidity (NTU) - Raw Source	2019	TT/5 95%	NS	AVG. .104 - .851	NR	NR	NR
Bicarbonate as HCO3 (ppm)	2016	None/ppm	N/A	50.3	124	126	NR
Calcium (ppm)	2016	N/A	N/A	1.8	16.1	17.1	(2014) 7.6/7.5/12.3/10.2/16.7
Carbonates CO3 (ppm)	2016	N/A	N/A	ND	ND	ND	NR
Chloride (ppm)	2016	500	N/A	1.8	0.6	0.4	(2014)0.5/0.6/0.5/0.3/ND
Color	2016	15 Units	N/A	NR	ND	3	NR
Ordor (TON)	2016	1	3	N/A	ND	ND	(2014) ND/ND/ND/2/ND
Copper (ug/L)	2019	1000	160	ND	ND	ND	NR
Foaming Agents (MBAS)	2016	0.5	N/A	ND	ND	ND	NR
Hydroxide as OH	2016	N/A	N/A	ND	ND	ND	NR
Iron (ppb)	2016	300	N/A	ND	ND	ND	(2005)ND(1)/ND(125)/ND(1)/ND(1)/ND(1)
Magnesium (ppm)	2016	N/A	N/A	2.6	6.0	8.6	NR
Manganese (ppm)	2016	50	N/A	ND	ND	ND	(2005) ND
Methyl-tert-butyl-ether (ppm)	2007	0.0005	5ug/L	ND	ND	ND	NR
PH - Disired range:	2016	6.5-8.5	N/A	8.2	8.2	7.7	NR
Silver	2016	100	N/A	ND	ND	ND	NR
Sodium (ppm)	2016	N/A	N/A	6.3	11.9	5.9	(2014)14.6/11.6/5.0/5.2/5.3
SpecificConductance [E.C.] (us)	2016	1600	N/A	101	192	185	(2014)215/189/164/160/217
Sulfate (ppm)	2016	500	N/A	1.7	0.3	0.3	(2014)1.3/0.9/1.7/3.6/0.8
Total Alkalinity [as CaCO3] (ppm)	2016	N/A	N/A	41.2	102	103	(2014)93.5/87.3/69.3/66.7/93.7
Total Dissolved Solids (ppm)	2016	1000	N/A	20	112	97	(2014)72/80/83/98/125
Total Hardness [as CaCO3] (ppm)	2016	N/A	N/A	32	65	78	(2014)44/41/59/51/74
Zinc (ppm)	2016	5	N/A	ND	ND	ND	(2014) ND
LEAD AND COPPER							
Action Level				MCL			
LEAD (ug/L)	2019	15	15	ND		ND	Internal corrosion-plumbing; erosion nat'l deposits.
Copper (ug/L)	2019	1300	1300	75		452	Corrosion of household plumbing systems.

MCL: Maximum Contaminant Level is the highest level of a contaminant that is allowed in drinking water. The MCL is set as close to the MCLG as feasible using the best available treatment technology.

MCLG: Maximum Contaminant Level Goal is the level of a contaminant in drinking water below which there is not known or expected risk to health. MCLGs allow for a margin of safety.

MRDL: Maximum Residual Disinfection Level Goal is 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.

PHG: Public Health Goal is the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

PPB: Parts Per Billion, parts contaminant for every 1 billion parts of water.

PPM: Parts Per Million, parts contaminant for every 1 million parts of water.

T: Number of tests for bacteria (Laboratory analysis)

Δ: Number of tests absent of bacteria

⊘: Number of tests detecting presence of bacteria

<: Less Than

>: Greater Than

RAA: Running Annual Average

N/A: Not Applicable

ND: Not Detected, indicates contaminant was not detected in the water source.

N/R: Not Regulated or Not Required

MRDLG: Maximum Residual Disinfection Level Goal is 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.

ug/L: Micrograms Per Liter (Parts Per Million)

pCi/L: Picocuries Per Liter: Measures of radioactivity per 1 light scattering.

TT: Treatment Technique: A required process intended to reduce the level of contaminant.

Units: Number of units measured

uS: Microsiemens are the measure of electrical current through a solution.

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