UNIT DESCRIPTIONS

- ug/L: Parts per billion
- mg/L: Number of milligrams of substance in one liter of water
- $\begin{array}{c} \textbf{ppm:} \ \text{Parts per million, or milligrams per liter} \\ \text{(mg/L)} \end{array}$
- **ppb:** Parts per billion, or micrograms per liter (μg/L)
- ppt: Parts per trillion, or nanograms per liter
- **ppq:** Parts per quadrillion, or picograms per liter
- pCi/L: Picocuries per liter (a measure of radioactivity)
- mrem/yr: Millirems per year (a measure of radiation absorbed by the body)
- MFL: Million Fibers per Liter, used to measure asbestos concentration
- NTU: Nephelometric Turbidity Units. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.
- positive samples/month: The number of samples taken monthly that were found to be positive
- positive samples/yr: The number of positive samples taken that year
- % positive samples/month: Percentage of samples taken monthly that were positive
- % killed or inactivated: Percentage of viruses/bacteria killed or inactivated by treatment method
- CFU/ml: Colony Forming Units per milliliter
- NA: Not Applicable
- ND: Not Detected
- NR: Not Required, but recommended

IMPORTANT DRINKING WATER DEFINITIONS

- MCLG: Maximum Contaminant Level Goal:
 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.
- MCL: Maximum Contaminant Level: 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.
- PDWS: Primary Drinking Water Standards:

 MCLs for contaminants that affect health
 along with their monitoring and
 reporting requirements, and water
 treatment requirements.
- AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- PHG: Primary Health Goal: The level of contaminant in drinking water below below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- MRDLG: Maximum Residual Disinfection
 Level Goal: 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.
- MRDL: Maximum Residual Disinfectant Level:
 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.
- MNR: Monitored Not Regulated
- MPL: Maximum Permissible Level as determined by the state of California

IS MY WATER SAFE? Last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards. The South Tahoe Public Utility District vigilantly safeguards its water supplies and, once again, we are proud to report that our system has not violated a maximum contaminant level or any other water quality standard.

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 Water Drinking Hotline (800-426-4791).

WHERE DOES MY WATER COME FROM? The District's service area is organized into 16 pressure zones serving over 2.4 billion gallons annually from 16 active drinking water wells to over 14,000 homes and businesses. All our drinking water is pumped from underground aquifers. No water is taken from Lake Tahoe or any other surface water source.

SOURCE WATER ASSESSMENT AND ITS AVAILABILITY

The District has an ongoing drinking water source development program to seek additional drinking water well locations. Due to the volume of the average annual Sierra snowpack and Lake Tahoe itself, our aquifer has a significant recharge capability. The District continues to work diligently to protect and maintain this precious natural resource.

HOW CAN I GET INVOLVED? The information contained in the Consumer Confidence Report may not answer all the questions you may have about the quality of the South Tahoe Public Utility District's drinking water supply. The District welcomes public participation in developing water quality and quantity policy. For more information, please call the District Information Office at 530-544-6474 extension 208. If you would like more detailed scientific information, please call the District Laboratory at 530-544-6474 extension 231, or check our website at www.stpud.us

The District is governed by an elected five member Board of Directors. Board meetings are held on the first and third Thursday of each month at 2:00 p.m. at the City Council Chambers located at 1900 Lake Tahoe Blvd. All meetings are open to the public and the District encourages our customers to attend and become involved in the policy making process.

water conservation program Water is a precious and finite resource in the Sierra. Due to the loss of a number of drinking water wells due to contamination from MTBE, a motor fuel additive, and the inordinately high cost of producing high-quality drinking water for landscape irrigation, it is crucial that we irrigate in an efficient manner. Please call the Customer Service Department at 530-544-6474 if you would like specific information on the District's Water Conversation Program.

RESULTS OF RADON MONITORING Radon is a radioactive gas that you can't see, taste or smell. It is found throughout the

WHY ARE THERE CONTAMINANTS IN MY DRINKING

WATER? 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 Environmental Protection Agency's (EPA) 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 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. 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 stormwater 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 agriculture, urban stormwater runoff, and residential uses. Organic Chemical Contaminants, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems. Radioactive contaminants, can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA and the state of California prescribe regulations that 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.

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 will, in most cases, be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause 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. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RADON).

RESULTS OF VOLUNTARY MONITORING See data sheets.

ADDITIONAL INFORMATION FOR ARSENIC While your drinking water meets EPA's standard for arsenic, it does contain low levels of naturally occurring 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.

WATER QUALITY DATA TABLE

The table to the right lists all of the drinking water contaminants that we detected that are applicable for the calendar year of this report. The presence of 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 in the calendar year of the report. 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.

CONTAMINANTS	MCLG/PHG OR MRDLG	MCL OR MRDL	AVG		NGE HIGH	SAMPLE DATE	VIOLATION	TYPICAL SOURCE
INORGANIC CONTAMINANTS								
Arsenic (ppb)	0	50	7.5	ND	15.7	2003	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Fluoride (ppm)	1	2	0.1	ND	0.3	2003	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	0.25	ND	0.94	2003	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (optional) (ppb)	NA	MPL	13.7	4.4	47.4	2003	No	Erosion of natural deposits; Leaching
RADIOACTIVE CONTAMINANTS								
Uranium (ug/L)	0	30	5	ND	21	2003	No	Erosion of natural deposits
VOLATILE ORGANIC CONTAMINANTS								
TTHMs [Total Trihalomethanes] (ppb)	NA	80	0.7	ND	0.7	2003	No	By-product of drinking water disinfection
Tetrachloroethylene (ppb)	0.5	5	0.04	ND	1.4	2003	No	Discharge from factories and dry cleaners
MICROBIOLOGICAL CONTAMINANTS								
Turbidity (NTU) The TT limit is 5 NTU for the highest single measurement. Your water was 0.53.						2003	No	Soil runoff

	MCLG/PHG	AL	AVG	SAMPLE DATE	# SAMPLES EXCEEDING AL	EXCEEDS AL	TYPICAL SOURCE
INORGANIC CONTAMINANTS							
Lead - action level at consumer taps (ppb)	0	15	6.3	2002	1	No	Corosion of household plumbing systems; Erosion of natural deposits
Copper - action level at consumer taps (ppb)	1.3	1.3	0.48	2002	4	No	Corosion of household plumbing systems; Erosion of natural deposits

ADDITIONAL CONTAMINANTS

In an effort to insure the safest water possible the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants only the ones listed to the right were found in your water.

UNREGULATED CONTAMINANT MONITORING

As part of an on-going evaluation program the EPA has required us to monitor some additional contaminants/chemicals. Information collected through the monitoring of these contaminants/chemicals will help to ensure that future decisions on drinking water standards are based on sound science.

CONTAMINANT	STATE MCL	AVG	VIOLATION	EXPLANATION AND COMMENT
Glyoxal	NA	2 ug/L	No	By-product of MTBE treatment
Formaldehyde	NA	6 ug/L	No	By-product of MTBE treatment
Acetylaldehyde	NA	2 ug/L	No	By-product of MTBE treatment
Vagnesium	NA	2.6 mg/L	No	Erosion of natural deposits
Calcium	NA	11.5 mg/L	No	Erosion of natural deposits
Potassium	NA	1.5 mg/L	No	Erosion of natural deposits
ron	NA	56 ug/L	No	Erosion of natural deposits
Bulfate	NA	3.7 mg/L	No	Erosion of natural deposits
-lardness	NA	43.1 mg/L	No	Erosion of natural deposits
ortho-Phosphate	NA	0.036 mg/L	No	Erosion of natural deposits
ьН	NA	7.6 Units	No	Erosion of natural deposits
Electrical Conductivity	NA	154	No	Erosion of natural deposits
Bromide	NA	0.01 mg/L	No	Erosion of natural deposits
Alkalinity,Total	NA	48 mg/L	No	Erosion of natural deposits
Total Phosphorus	NA	0.04 mg/L	No	Erosion of natural deposits
Zinc	5000 ug/L	11.7 ug/L	No	Erosion of natural deposits
Total Dissolved Solids	500 mg/L	104 mg/L	No	Erosion of natural deposits
Carbon Dioxide, Free	NA	11.6 mg/L	No	Naturally occuring
Total Organic Carbon	NA	0.8 mg/L	No	
Radon	NA	890 pCi/L	No	
Gross Alpha	NA	2.8 pCi/L	No	Erosion of natural deposits
Vanganese	50 ug/L	21.9 ug/L	Yes	Erosion of natural deposits
Chlorine Residual	4 mg/L	0.5 mg/L	No	By-product of disinfection process

NAME	REPORTED LEVEL	LOW RANGE	HIGH RANGE
MTBE	0	ND	0.47 ug/L
Perchlorate	0	ND	4 ug/l
Vanadium	0	ND	5 ug/L
Boron	0	ND	700 ug/L