### South Tahoe Public Utility District

## CONSUMER CONFIDENCE REPORT 2012



**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 USEPA's Safe Water Drinking Hotline (1-800-426-4791).

#### WHERE DOES MY WATER COME FROM? The

District's service area is organized into 23 pressure zones serving over 2.5 billion gallons annually from 16 active drinking water wells to nearly 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**

**PROTECTION** The District's Groundwater
Management Plan (California Water Code Section 10750) was adopted on December 21, 2000 and is on file with the California Department of Public Health (CDPH). You may view the document by visiting the District's website at www.stpud.us or

by requesting a copy by calling Customer Service at 530-544-6474.

The District has an ongoing drinking water source development program that seeks potential 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.

#### 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 (1-800-426-4791). 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application 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, the United States Environmental Protection Agency (USEPA) and the California Department of Public Health (DPH) 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.

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. If you would like more detailed scientific information, please call the District Laboratory at 530-544-6474 extension 6231, or check our website at www.stpud.us.

The District is governed by an elected fivemember Board of Directors. Board meetings are held on the first and third Thursday of each month at 2 p.m. at the Customer Service Facility located at 1275 Meadow Crest Drive. All meetings are open to the public and the District encourages our customers to attend and become involved in the policy making process.

**RESULTS OF RADON MONITORING** Radon is a radioactive gas that you can't 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 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.

**REGARDING ARSENIC** Arsenic is a naturally occurring substance that is sometimes found at very low levels in drinking water, primarily groundwater. The U.S. Environmental Protection Agency (EPA) was required by the Safe Drinking Water Act Amendments of 1996 to finalize a new drinking water standard for arsenic in 2001 based on good scientific information and data.

Of the District's 16 active drinking water wells, two exceeded the new standard. Of those two wells, one has been disconnected from the water distribution system, but could be placed into service in the event of an emergency, such as wildfire. On the remaining well, a DPH-approved treatment facility has been operational since October 2009. The District is in full compliance with both state and federal standards.

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.

**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 on the last page under "Additional Contaminants" were found in your water.

CONTAMINANTS	MCLG/PHG OR MRDLG	MCL OR MRDL OR NL	AVERAGE	MIN	MAX	SAMPLE DATE	VIOLATION	TYPICAL SOURCE
INORGANIC CONTAMINANTS								
Arsenic (ppb)	0.004	10	3.5	ND	7.5	2012	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Fluoride (ppm)	1	2	0.12	ND	0.30	2012	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen] (ppm)	10	10	0.27	0.03	0.90	2012	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Sodium (ppm)	NA	MPL	11.1	4.29	25.2	2012	No	Erosion of natural deposits; Leaching
RADIONUCLIIDES								
Gross Alpha (pCi/L), minus Uranium		15	2.77	0.41	7.92	2012	No	Erosion of natural deposits
Uranium (pCi/L)	0.43	20	4.28	0.56	9.26	2012	No	Erosion of natural deposits
Radium-226 (pCi/L)	0.05		0.79	0.14	1.76	2012	No	Erosion of natural deposits
Radium-228 (pCi/L)	0.019		1.29	ND	1.99	2012	No	Erosion of natural deposits
Radium-226 + Radium-228		5	2.08	1.27	3.73	2012	No	Erosion of natural deposits
VOLATILE ORGANIC CONTAMINANTS								
MTBE [Methyl Tert Butyl Ether] (ppb)	5	13	ND	ND	0.4	2012	No	Leaking underground fuel storage tanks
1,2,DCA	0.4	0.5	ND	ND	0.7	2012	No	
Total Trihalomethanes (ppb)	NA	80	1.9	ND	16.0	2012	No	By-product of drinking water disinfection
HaloAcetic Acids	NA	60	0.2	ND	2.4	2012	No	By-product of drinking water disinfection
MICROBIOLOGICAL CONTAMINANTS								
Total Coliforms (% Positive each month)		5	0	0	0	2012	No	Naturally present in environment
E. Coli (% Positive)		0	0	0	0	2012	No	Human and animal fecal matter
Heterotrophic Plate Count or HPC (CFU)		NA	0.2	ND	0.4	2012	No	NA
Turbidity (NTU) The Turbidity limit for the highest single measurement.		5	0.14	0.02	0.49	2012	No	Soil runoff
INORGANIC CONTAMINANTS	MCLG/PHG	AL	90TH PERCENTILE	SAMPLE	DATE	# SAMPLES EXCEEDING AL	EXCEEDS AL	TYPICAL SOURCE
Lead - action level at consumer taps (ppb)	ND	15	ND	2011		0	No	Corosion of household plumbing systems; Erosion of natural deposits
Copper - action level at consumer taps (ppb)	ND	1,300	634	201	1	0	No	Internal corrosian of household plumbing systems; erosian of natural deposits; leaching from wood preservatives

### 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

Barium ppm 2,000 10.0 No 2011 Erosion of natural deposits  Bromide ppm NA 0.014 No 2012 Erosion of natural deposits  Calcium ppm NA 11.8 No 2012 Erosion of natural deposits  Carbon Dioxide, Free ppm NA 6.1 No 2012 Erosion of natural deposits  Chloride ppm 500 9.0 No 2012 Erosion of natural deposits  Chlorine, Free ppm 4.0 0.71 No 2012 Byproduct of disinfection process  Chromium o ppb NA 0.53 No 2011 Erosion of natural deposits  Calor Units 15 5 No 2012 Naturally occurring arganic materials  Capper ppm NA ND No 2012 Erosion of natural deposits  Electrical Conductance unihos/cm 1,600 140 No 2012 Erosion of natural deposits  Harchess ppm NA 45.9 No 2012 Erosion of natural deposits  Ico ppb NA 45.9 No 2012 Erosion of natural deposits  Ico ppb NA 45.9 No 2012 Erosion of natural deposits  Ico ppb NA ND No 2012 Erosion of natural deposits  Ico ppb NA 45.9 No 2012 Erosion of natural deposits  Ico ppb NA ND No 2012 Erosion of natural deposits  Ico Ppb NA ND No 2012 Erosion of natural deposits  Ico Ppb NA ND No 2012 Erosion of natural deposits  Ico Ppb NA ND No 2012 Erosion of natural deposits  Ico Ppb NA ND No 2012 Erosion of natural deposits	ADDITIONAL CONTAMINANTS	UNITS	STATE MCL	AVERAGE	VIOLATION	SAMPLE DATE	EXPLANATION AND COMMENT
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Lead       ppb       NA       ND       No       2012       Old plumbing/erosian of natural deposits         Magnesium       ppm       NA       2.25       No       2012       Erosion of natural deposits         Manganese       ppb       50.0       ND       No       2012       Erosion of natural deposits         OdorThreshold       Units       3       1       No       2012       Naturally occurring organic materiols         Organic Carbon, Total       ppm       NA       0.31       No       2012       Erosion of natural deposits         Phosphorus, Total       ppm       NA       0.039       No       2012       Erosion of natural deposits         pH       Units       NA       7.87       No       2012       Erosion of natural deposits         Potassium       ppm       NA       1.32       No       2012       Erosion of natural deposits         Rackon       pCi/L       NA       431       No       2012       Erosion of natural deposits         Silica       ppm       NA       27       No       2011       Erosion of natural deposits         Sulfate       ppm       500       3.29       No       2012       Erosion of natural deposits <t< td=""><td>Hardness</td><td>ppm</td><td>NA</td><td>45.9</td><td>No</td><td>2012</td><td>Erosion of natural deposits</td></t<>	Hardness	ppm	NA	45.9	No	2012	Erosion of natural deposits
Magnesium       ppm       NA       2.25       No       2012       Erosion of natural deposits         Manganese       ppb       50.0       ND       No       2012       Erosion of natural deposits         OdcorThreshold       Units       3       1       No       2012       Naturally occurring organic materials         Organic Carbon, Total       ppm       NA       0.31       No       2012       Naturally occurring organic materials         ortho-Phosphate, as P       ppm       NA       0.039       No       2012       Erosion of natural deposits         Phosphanus, Total       ppm       NA       0.043       No       2012       Erosion of natural deposits         pH       Units       NA       7.87       No       2012       Erosion of natural deposits         Potassium       ppm       NA       1.32       No       2012       Erosion of natural deposits         Rodon       pCi7L       NA       431       No       2012       Erosion of natural deposits         Silica       ppm       NA       27       No       2011       Erosion of natural deposits         Sulfate       ppm       500       3.29       No       2012       Erosion of natural deposits	Iron	ppb	300	51.0	No	2012	Erosion of natural deposits
Manganese ppb 50.0 ND No 2012 Erosion of natural deposits  Odor/Threshold Units 3 1 No 2012 Naturally occurring organic materials  Organic Carbon, Total ppm NA 0.31 No 2012 Naturally occurring organic materials  orthoPhosphate, as P ppm NA 0.039 No 2012 Erosion of natural deposits  Phosphorus, Total ppm NA 0.043 No 2012 Erosion of natural deposits  pH Units NA 7.87 No 2012 Erosion of natural deposits  Potassium ppm NA 1.32 No 2012 Erosion of natural deposits  Radon pCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Silica ppm S00 3.29 No 2012 Erosion of natural deposits  Temperature - System F NA 49.5* No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Lead	ppb	NA	ND	No	2012	Old plumbing/erosian of natural deposits
OdorThreshold Units 3 1 No 2012 Naturally occurring organic materials Organic Carbon, Total ppm NA 0.31 No 2012 Naturally occurring organic materials orthoPhosphale, as P ppm NA 0.039 No 2012 Erosion of natural deposits Phosphorus, Total ppm NA 0.043 No 2012 Erosion of natural deposits pH Units NA 7.87 No 2012 Erosion of natural deposits Potassium ppm NA 1.32 No 2012 Erosion of natural deposits Radon pCi/L NA 431 No 2012 Erosion of natural deposits Silica ppm NA 27 No 2012 Erosion of natural deposits Silica ppm NA 27 No 2012 Erosion of natural deposits Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits Temperature - System F NA 49.5* No 2012 Erosion of natural deposits	Magnesium	ppm	NA	2.25	No	2012	Erosion of natural deposits
Organic Carbon, Total ppm NA 0.31 No 2012 Naturally occurring organic materials ortho-Phosphate, as P ppm NA 0.039 No 2012 Erosion of natural deposits  Phosphorus, Total ppm NA 0.043 No 2012 Erosion of natural deposits  pH Units NA 7.87 No 2012 Erosion of natural deposits  Potassium ppm NA 1.32 No 2012 Erosion of natural deposits  Radon pCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System F NA 49.5* No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Manganese	ppb	50.0	ND	No	2012	Erosion of natural deposits
ortho-Phosphate, as P ppm NA 0.039 No 2012 Erosion of natural deposits  Phosphorus, Total ppm NA 0.043 No 2012 Erosion of natural deposits  pH Units NA 7.87 No 2012 Erosion of natural deposits  Potassium ppm NA 1.32 No 2012 Erosion of natural deposits  Radon pCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System 'F NA 49.5' No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Odor-Threshold	Units	3	1	No	2012	Naturally occurring organic materials
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Potassium ppm NA 1.32 No 2012 Erosion of natural deposits  Radon pCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System *F NA 49.5* No 2011 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	ortho-Phosphate, as P	ppm	NA	0.039	No	2012	Erosion of natural deposits
Potassium ppm NA 1.32 No 2012 Erosion of natural deposits  Radon pCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System 'F NA 49.5' No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Phosphorus, Total	ppm	NA	0.043	No	2012	Erosion of natural deposits
Radon PCi/L NA 431 No 2012 Erosion of natural deposits  Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System "F NA 49.5" No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	рН	Units	NA	7.87	No	2012	Erosion of natural deposits
Silica ppm NA 27 No 2011 Erosion of natural deposits  Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System F NA 49.5* No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Potassium	ppm	NA	1.32	No	2012	Erosion of natural deposits
Sulfate ppm 500 3.29 No 2012 Erosion of natural deposits  Temperature - System *F NA 49.5* No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Radon	pCi/L	NA	431	No	2012	Erosion of natural deposits
Temperature - System *F NA 49.5* No 2012 Erosion of natural deposits  Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Silica	ppm	NA	27	No	2011	Erosion of natural deposits
Vanadium ppb NA 3.4 No 2011 Erosion of natural deposits	Sulfate	ppm	500	3.29	No	2012	Erosion of natural deposits
	Temperature - System	°F	NA	49.5°	No	2012	Erosion of natural deposits
Zinc ppb 5,000 11.3 No 2012 Runoff/leaching from natural deposits	Vanadium	ppb	NA	3.4	No	2011	Erosion of natural deposits
	Zinc	ppb	5,000	11.3	No	2012	Runoff/leaching from natural deposits

#### **UNIT DESCRIPTIONS**

**μg/L:** Micrograms per Liter, or parts per billion

mg/L: Number of milligrams of substance in one liter of water

ppm: Parts per million, or milligrams per Liter (mg/L)

**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