



2002 Consumer Confidence Report

June 2003

We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2002.

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo ó hable con alguien que lo entienda bien.

Water Sources and Drinking Water Source Assessment information: Crestline Village Water District gets its water from two types of sources: **1) Local Ground Water:** A limited amount of ground water is obtained from 25 separate wells within the District. **2) Imported Surface Water:** Imported surface water is purchased from the Crestline-Lake Arrowhead Water Agency. Crestline-Lake Arrowhead Water Agency buys surface water at Silverwood Lake, treats it and then pumps it up the mountain for use by the District and other water users. Depending on the location of your property, you may receive a blend of local and imported water, or 100% local or imported water,

The District has prepared Drinking Water Source Assessments on all of its water sources. The source assessments were completed in 2002 and are available for review at the District's office.

Board Meetings: The District is governed by a locally elected Board of Directors, which meets in a public meeting on the third Tuesday of each month at 3:00 pm at the District's office located at 777 Cottonwood Drive, Crestline, California.

Terms Used in this Report:

MCL or Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

PDWS or Primary Drinking Water Standards: MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

SDWS or Secondary Drinking Water Standards: MCLs for contaminants that affect taste, odor, or appearance, not health, along with their monitoring and reporting requirements, and water treatment requirements.

PHG or Public Health Goal: 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.

MCLG or Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

AL or Regulatory Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

NTU or Nephelometric Turbidity Units: A measurement of the clarity of water. Turbidity is the measurement of particles suspended in water. Turbidity results that meet performance standards are considered to be in compliance with filtration requirements.

ND = Not detectable at testing limit

NS = No standard

ppm = Parts per million or milligrams per liter (mg/L)

ppt = Parts per trillion or nanograms per liter (ng/L)

ppb = Parts per billion or micrograms per liter (ug/L)

pCi/L = Pico curies per liter (a measure of radiation)

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.

In order to ensure that tap water is safe to drink, USEPA and the state Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Contaminants that may be present in source water include:

- **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**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

Additional Drinking Water Information:

All 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 the 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 (1-800-426-4791).

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. USEPA/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 (1-800-426-4791).

Detected Contaminants In Your Drinking Water:

The tables on the reverse side of this sheet list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, are more than one year old.

For more information, please contact **Don Wagner** at (909) 338-1727

or write to us at: **Crestline Village Water District**
PO Box 3347, Crestline, CA 92325-3347

E-mail us at: cvwater@cvwater.com

Visit us on the Internet at: www.cvwater.com

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SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Lead and Copper	No. of samples collected	90 th percentile level detected	No. Sites exceeding		MCLG	Typical Source of Contaminant
			AL	AL		
Lead (ppb)	40	9	3	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	40	1.1	3	1.3	0.17	Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives.

SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent	Ground Water		Surface Water		MCL	PHG or MCLG	Typical Source of Contaminant
	Level Detected	Range of Detections	Level Detected	Range of Detections			
Sodium (ppm)	13.5	9 - 30	65	58 - 80	NS	NS	Generally found in ground and surface water
Hardness (ppm)	93	58 - 140	128	100 - 150	NS	NS	Generally found in ground and surface water

CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent	Ground Water		Surface Water		MCL	PHG or MCLG	Typical Source of Contaminant
	Level Detected	Range of Detections	Level Detected	Range of Detections			
Arsenic (ppb)	ND	ND	.33	ND - 2	50	NS	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Fluoride (ppm)	0.18	0.11 - 0.33	.04	ND - .18	2	1	Erosion of natural deposits
Nitrate (ppm)	5.2	ND - 11	3.1	2.0 - 3.7	45	45	Erosion of natural deposits; runoff and leaching from fertilizer use and septic tanks
Gross Alpha (pCi/L)	3.2	ND - 15.8	-	-	15	NS	Erosion of natural deposits
Uranium (pCi/L)	5.3	ND - 14.8	-	-	20	NS	Erosion of natural deposits
TTHM (Total Trihalomethanes) (ppb) *	-	-	133	78 - 194	100	NS	By -product of drinking water chlorination

CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent	Ground Water		Surface Water		MCL	Typical Source of Contaminant
	Level Detected	Range of Detections	Level Detected	Range of Detections		
Aluminum (ppb)	ND	ND	20	ND - 80	200	Leaching from natural deposits; residual from some surface water treatment processes
Chloride (ppm)	16.5	6.7 - 97	98	91 - 110	500	Leaching from natural deposits
Sulfate (ppm)	8.8	3.2 - 28	47	35 - 53	500	Leaching from natural deposits
Specific Conductance (micromhos)	227	160 - 380	-	-	1600	Substances that form ions when in water
Total Dissolved Solids (ppm)	130	61 - 330	305	270 - 340	1000	Leaching from natural deposits
Zinc (ppm)	0.01	ND - .06	-	-	5	Leaching from natural deposits
Turbidity (NTU)	0.2	0.1 - 1.6	See below		5	Soil runoff

UNREGULATED CONTAMINANTS

Chemical or Constituent	Ground Water		Surface Water		AL	Typical Source of Contaminant
	Level Detected	Range of Detections	Level Detected	Range of Detections		
Boron (ppb)	-	-	150	130 - 170	1000	Erosion of Natural Deposits
Vanadium (ppb)	-	-	9.1	4.9 - 14	50	Erosion of Natural Deposits

SAMPLING RESULTS SHOWING TREATMENT OF IMPORTED SURFACE WATER SOURCES

Treatment Technique **	"Multi-barrier"					
Turbidity Performance Standards ***	Turbidity of the filtered water must be less than or equal to 0.5 NTU in 95% of measurements in a month.					
Lowest monthly percentage of samples that met the turbidity performance standard	100%					
Highest single turbidity measurement during the year	.2					

* **Any violation of an MCL or AL is asterisked.** Additional information regarding the violation is provided below.

** **Treatment Technique** - A required process intended to reduce the level of a contaminant in drinking water.

*** **Turbidity** is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

Summary Information for Contaminants in the above tables that exceeded an MCL or AL, or a Violation of any Treatment or Monitoring and Reporting Requirements

TTHMs (Total Trihalomethanes): Some people who use water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer. (The average level detected shows the highest running annual average. The MCL is 100 ppb for systems serving a population of more than 10,000 persons. However, USEPA has adopted a new MCL of 80 ppb with which the Crestline-Lake Arrowhead Water Agency will be required to comply in 2003.)