

**Twain Harte**  
**Community Services District**  
P.O. Box 649  
Twain Harte, CA 95383

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



**TWAIN HARTE**  
**COMMUNITY SERVICES**

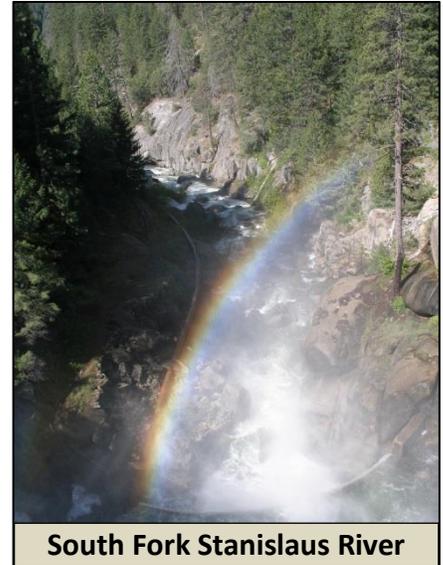
**WATER QUALITY REPORT**



# Substances Commonly Found in Water

Common 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 can absorb naturally occurring minerals, radioactive material and other substances resulting from the presence of animal or from human activity.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.



South Fork Stanislaus River

Contaminants that may be present in source water include:

- **Microbial Contaminants** – Viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Inorganic Substance** – Salts and metals that can be naturally occurring or can result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and Herbicides** – From a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- **Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and which can also come from gas stations, urban stormwater runoff, agricultural application and septic systems;
- **Radioactive Contaminants** – Naturally occurring or the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe Drinking Water Hotline at (800) 426-4791.



## Is Bottled Water Better than Tap Water?

Thanks in part to aggressive marketing, the bottled water industry has successfully convinced us all that water purchased in bottles is a healthier than tap water. However, according to a four-year study conducted by the Natural Resources Defense Council, bottled water is not necessarily cleaner or safer than most tap water. In fact, about 25

percent of bottled water is actually just bottled tap water (40 percent according to government estimates).

The Food and Drug Administration (FDA) is responsible for regulating bottled water. The regulations required by the FDA require less rigorous testing and purity standards than those required by the U.S. EPA for community tap water. For instance, the high mineral content of some bottled waters makes them unsuitable for babies and young children. Further, the FDA completely exempts bottled water that's packaged and sold within the same state, which accounts for about 70 percent of all bottled water sold in the United States.



People spend 10,000 times more per gallon for bottled water than they typically do for tap water. If you get your recommended eight glasses a day from bottled water, you could spend up to \$1,400 annually. The same amount of tap water would cost about 49 cents. Even if you installed a filter device on your tap, your annual expenditure would be far less than what you'd pay for bottled water.

For a detailed discussion on the NRDC study results, check out their web site at:

[www.nrdc.org/water/drinking/bw/exesum.asp](http://www.nrdc.org/water/drinking/bw/exesum.asp).

## Important Health Information

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 from their health care providers about drinking water. 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 at: **(1-800-426-4791)**

## Lead in Home Plumbing

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. Twain Harte CSD 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 flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. 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>.

## Need More Information?

**Contact:** Robb Perry – (209) 586-3172

**Visit:** [www.twainhartecsd.com](http://www.twainhartecsd.com)

## PRIMARY DRINKING WATER STANDARD

Substance (Units)	Year Sampled (Ditch/Well #1/Well#2)	MCL	PHG (MCLG)	Ditch	Well #1	Well #2	Range Low-High	Violation	Typical Source
				Amount Detected	Amount Detected	Amount Detected			
Aluminum (Al) (ppm)	2017/2017/2015	1	0.6	0.0674	ND	ND	NA	No	Erosion of natural deposits; residue from some surface water treatment processes
Dichloromethane (ppb)	2013/2017/2016	5	4	ND	1.11	ND	NA	No	Discharge from pharmaceutical and chemical factories; insecticide
Fluoride (F) (ppm)	2017/2017/2015	2	1	ND	NA	0.742	NA	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha ( pCi/L)	2014-2014/2014-2015/2015-2016	15	(0)	ND	NA	5.24	5.05 – 5.43	No	Erosion of natural deposits
Nitrate (as nitrogen, N) (ppm)	2017/2017/2017	10	10	ND	NA	0.9	NA	No	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Uranium (pCi/L)	NA/NA/2015-2016	20	0.43	ND	NA	3.28	2.8 – 3.71	No	Erosion of natural deposits

## Treated Water Distribution System (Post-Treatment)

Substance (Units)	Year Sampled	MCL/ MRDL	PHG (MCLG) (MRDLG)	Amount Detected	Range Low-High	Ditch	Well #1	Well #2	Violation	Typical Source
						Amount Detected	Amount Detected	Range Low-High		
Chlorine (ppm)	2017	4.0 (as Cl <sub>2</sub> )	4.0 (as Cl <sub>2</sub> )	0.68	0.34 - 0.98	ND	ND	NA	No	Drinking water disinfectant added for treatment
HAA5 (Haloacetic Acids) (ppb)	2017	60	NA	25.2	15.3 – 39.1	ND	ND	NA	No	Byproduct of drinking water disinfection
THM (Total Trihalomethanes) (ppb)	2017	80	NA	49.4	28.1 – 71.1	ND	ND	NA	No	Byproduct of drinking water disinfection
TOC (Total Organic Carbon) (ppm)	2017	TT	NA	1.19	0.8 – 2.0	ND	ND	NA	No	Various natural and man-made sources
Turbidity (After Filtration for Ditch and Well 2) (NTU)	2017	0.3	NA	0.035	0.024 – 0.122	0.5	0.023	0.022 – 0.045	No	Soil runoff
Turbidity <sup>1</sup> (Lowest Percentage Meeting Requirements) (NTU)	2017	TT	NA	100%	NA	ND	ND	NA	No	Soil runoff

## Tap Water (Samples from 10 homes within the District)

Substance (Units)	Year Sampled	Action Level	PHG (MCLG)	Amount Detected	Homes Above Action Level	Number of Schools		Violation	Typical Source
						Requesting Lead Sampling	Requesting Lead Sampling		
Copper (ppm) <sup>2</sup>	2015	1.3	0.3	0.3	0	NA	NA	No	Internal corrosion of household plumbing systems; erosion of natural deposit; leaching from wood preservatives
Lead (ppb) <sup>2</sup>	2015	15	0.2	ND	0	1	1	No	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

## SECONDARY DRINKING WATER STANDARD

Substance (Units)	Year Sampled Ditch/Shadybrook/Well#1/Well#2	SMCL (SDWS)	Ditch	Shadybrook	Well #1	Well #2	Violation	Typical Source
			Amount Detected	Amount Detected	Amount Detected	Amount Detected		
Chloride (ppm)	2017/2015/2017/2015	500	ND	3.23	6.34	3.89	No	Runoff/leaching from natural deposits; seawater influence
Color (Units)	2017/2015/2017/2015	15	8	8	ND	3	No	Naturally occurring organic materials
Odor (Units)	2017/2015/2017/2015	3	3	3	1	1	No	Naturally occurring organic materials
Sulfate (ppm)	2017/2015/2017/2015	500	ND	1.78	ND	2.01	No	Runoff/leaching from natural deposits; industrial wastes
Specific Conductance (umhos/cm)	2017/2015/2017/2015	1600	18	76	192	313	No	Substances that form ions when in water; seawater influence
Total Dissolved Solids [TDS] (ppm)	2017/2015/2017/2015	1000	8	44	44	118	No	Runoff/leaching from natural deposits
Zinc (ppm)	2017/2015/2017/2015	5	ND	ND	ND	0.13	No	Runoff/leaching from natural deposits; industrial wastes

## UNREGULATED AND OTHER SUBSTANCES

Substance (Units)	Year Sampled Ditch/Shadybrook/Well#1/Well#2	Ditch		Shadybrook		Well #1		Well #2	
		Amount Detected	Range Low-High	Amount Detected	Range Low-High	Amount Detected	Range Low-High	Amount Detected	Range Low-High
Alkalinity (ppm)	2017/2015/2017/2017	13.6	9-29	43	NA	89.1	74-91	151	149-152
Bicarbonate (ppm)	2017/2015/2017/2017	8	NA	52	NA	85	NA	221	NA
Calcium (ppm)	2017/2015/2017/2017	1.3	NA	6.8	NA	14	NA	32	NA
Hardness (ppm)	2017/2015/2017/2017	5.3	NA	17	NA	45	NA	100	NA
Magnesium	2017/2015/2017/2017	0.509	NA	ND	NA	2.8	NA	6	NA
pH (Units)	2017/2017/2017/2017	7.04	6.5 – 7.44	7.1	6.93 – 7.22	6.66	6.41 – 6.93	7.6	7.4 – 7.76
Potassium	2017/2015/2017/2017	ND	NA	ND	NA	ND	NA	1.8	NA
Sodium (ppm)	2017/2015/2017/2017	1.2	NA	4.3	NA	9.57	NA	23	NA

### Definitions

**Maximum Contaminant Level (MCL):** 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.

**Maximum Contaminant Level Goal (MCLG):** 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).

**Public Health Goal (PHG):** 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.

**Maximum Residual Disinfectant Level (MRDL):** 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.

**Maximum Residual Disinfectant Level Goal (MRDLG):** 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.

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

**Secondary Drinking Water Standards (SDWS):** MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

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

**Variations and Exemptions:** State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

**ND:** not detectable at testing limit

**ppm:** parts per million or milligrams per liter (mg/L)

**ppb:** parts per billion or micrograms per liter (µg/L)

**pCi/L:** picocuries per liter (a measure of radiation)

<sup>1</sup> Turbidity is a measure of the cloudiness of the water and is an indicator of the effectiveness of the filtration system.

<sup>2</sup> Copper and Lead was detected at two homes in an isolated pressure zone during non-routine corrosive potential checks of our well water in 2016 and 2017. The results are only representative of that pressure zone. A corrosion control chemical is now applied and subsequent results indicate below MCL copper and lead levels.