Twain Harte Community Services District P.O. Box 649 Twain Harte, CA 95383 First Class Mail U.S. Postage Paid Permit NO. 18 Twain Harte, CA

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



Twain Harte CSD Exceeds Water Quality Standards

We are proud to report that Twain Harte CSD met or exceeded water quality standards in 2021. Every year, our staff takes hundreds of water samples to ensure that we deliver the highest quality water to our customers. Samples are tested and compared to water quality standards established for your health and safety by state and federal regulatory agencies. This report is provided each year to reassure our customers that our water is not only delicious, but also safe. The report shows testing results for the period of January 1, 2021 through December 31, 2021 and includes some testing data for constituents not required to be monitored annually.

Where Does My Water Come From?

Assessing water quality begins with understanding the water's source. Our primary water source is surface water that starts as rain and snowfall high up in the Sierra Nevada Mountains. The rain and snowmelt flows into the South Fork of the Stanislaus River, makes its way into Pinecrest Reservoir and then continues its journey in the river down to Lyons Reservoir. From Lyons Reservoir, the water flows through a series of open-channel ditches developed by miners in the 1800's before it finally reaches our water treatment plant and is pushed through our distribution system to your home. Contact TUD for more source information at (209) 532-5536.

Every fall, PG&E (owner of Pinecrest Reservoir, Lyons Reservoir and the Tuolumne Canal) shuts the ditch system down for repairs. To avoid interruption of water supply during that time, we pump and treat water from Shadybrook Reservoir – two small ponds located on Shadybrook Drive. The ponds are used primarily as a backup water source and are

large enough to provide Twain Harte with water for three weeks.

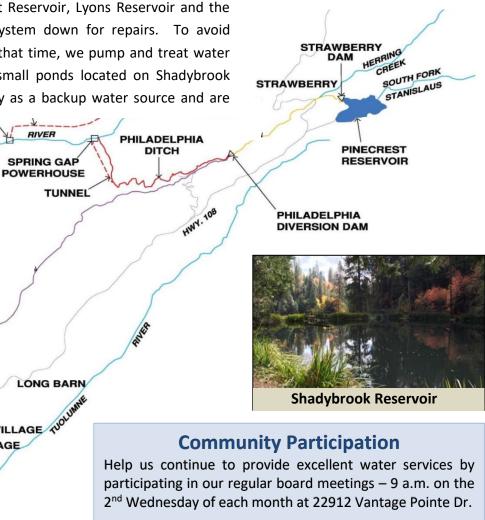
Over the last several years, we have also constructed three grantfunded groundwater wells, which are used regularly to supplement the surface water supply and provide greater water reliability to the community.

LYONS RESERVOIR





Section 4 Ditch (Twain Harte)



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.



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.

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: Lewis Giambruno (209) 586-3172 **Visit:** <u>www.twainhartecsd.com</u>

PRIIVIARY DRINK	PRIMARY DRINKING WATER STANDARD Ditch Well #1 Well #2 Well #3													
Substance (Units)	Year Samı (Ditch/Well #1/We		MCL		nount Amoun tected Detecte	0	Amount Rar Detected Low-	-	Range Low-High	olation	Typical Source			
Barium (ppb)	2021/2020/20		1000	· · ·	ND 58.6	NA	ND NA	390	NA		••	of oil drilling wastes and from metal refineries; erosion of natural deposits		
Dichloromethane (ppb)	2019/2017/20	18/2018	5	4	ND 1.62	1.11-2.12	ND NA	ND	NA			cal and chemical factories; insecticide		
Fluoride (ppm)	2020/2020/20	18/2018	2	1	ND 0.393	NA	ND NA	ND	NA	No Erosion	of natural deposits; v	vater additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
Gross Alpha (pCi/L)	2014-2015/2014-2015	/2021/2018-2019	15	(0)	ND ND	NA	4.86 3.27-7	.02 3.99	1.01-5.89	No Erosion	of natural deposits	i de la constante de la constan		
Uranium (pCi/L)	NA/NA/2021/2	018-2019	20	0.43 ND ND		NA	5.42 1.42-10.6 0.755 0.288-1.3		0.288-1.3	No Erosion	Erosion of natural deposits			
Treated Water Distribution System (Post-Treatment)						•	Well #1	Well	#2	Well #3				
Substance (Units)		Year Sampled	MCL/ MRDL	PHG (MC (MRDLG		0	Amount Detected	Amount Detected	Range Low- High	Amount Detected	Violation	Typical So	urce	
Chlorine (ppm)		2021	4.0 (as Cl₂)	4.0 (as Cl ₂)	0.69	0.45-0.98	NA	NA	NA	NA	No	Drinking wate	er disinfectant added for treatment	
HAA5 (Haloacetic Acids) (ppb)		2021	60	NA	8.7	ND-15	NA	NA	NA	NA	No	Byproduct of	drinking water disinfection	
TTHM (Total Trihalomethanes) (pr	ob)	2021	80	NA	12.9	ND-27	NA	NA	NA	NA	No		drinking water disinfection	
TOC (Total Organic Carbon) (ppm))	2021	TT	NA	1.6	1.2-3.9	NA	NA	NA	NA				
Turbidity (After Filtration for Ditch	n and Well 2) (NTU)	2021	0.3	NA	0.040	0.016-0.215	NA	0.023	0.018 - 0.2	NA	No	Soil runoff/ Erosion of natural deposits		
Turbidity ¹ (Lowest Percentage Me	eting Requirements) (NTU)	2021	TT	NA	100%	NA	NA	NA	NA	NA	No	-	rosion of natural deposits	
Tap Water (Samples fr	rom 10 homes withi	<u> </u>	1											
				PHG	Amount Detecte	۰d								
Substance (Units)	Year Samp	led Action	Level	(MCLG)	(90 th %ILE)	Homes A	oove Action Level	Violation	Typical Source					
Copper (ppm) ²	2021	1.	.3	0.3 0.41			0	No	Internal corrosion of h	nousehold plumbing	g systems; erosion of	of natural deposit; leaching from wood preservatives		
Lead (ppb)	2021	1	5	0.2	ND		0	No	Internal corrosion of h	nousehold plumbing	g systems; discharges	s from industrial	manufacturers; erosion of natural deposits	
SECONDARY DRI	NKING WATER	STANDA	RD		Ditch		Shadybrook	Well #	1 We	ell #2	Well #3			
Substance (Units)	Year Sam Ditch/Shadybrook/Well	•	SMCL (S	DWS) Amou	nt Detected R	ange Low-High	Amount Detected	Amount Det	ected Amount	Detected Ar	mount Detected	Violation	Typical Source	
Substance (Units)		#1/Well#2/Well#3	SMCL (S		nt Detected R	ange Low-High	Amount Detected	Amount Det	- I	Detected Ar	mount Detected	Violation No	Typical Source Erosion of natural deposits; residual from some surface water treatment processes	
	Ditch/Shadybrook/Well#	#1/Well#2/Well#3 /2021/2021	; , ,			0 0		1	N			T		
Aluminum (ppm)	Ditch/Shadybrook/Well 2021/2015/2020	, #1/Well#2/Well#3 /2021/2021 /2021/2021	0.2		0.13	NA	ND	ND	N 1	ND	ND	No	Erosion of natural deposits; residual from some surface water treatment processes	
Aluminum (ppm) Chloride (ppm) Color (Units) Iron (Pre-Filtration) (ppm)	Ditch/Shadybrook/Well# 2021/2015/2020 2021/2015/2020 2021/2015/2020 2021/2015/2020	, #1/Well#2/Well#3 /2021/2021 /2021/2021 /2021/2021 /2021/2021	0.2		0.13 2.6 40 0.66	NA NA NA 0.66-1.0	ND 3.23 8 ND	ND 6.23 ND ND	N 1 0.0	ND 1.6 ND 032	ND 2.0 ND ND	No No No	Erosion of natural deposits; residual from some surface water treatment processes Runoff/leaching from natural deposits; seawater influence Naturally occurring organic materials Leaching from natural deposits; industrial wastes	
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Aluminum (ppm) Chloride (ppm) Color (Units) Iron (Pre-Filtration) (ppm) Manganese (Pre-Filtration) (ppm) Odor (Units)	Ditch/Shadybrook/Well# 2021/2015/2020 2021/2015/2020 2021/2015/2020 2021/2015/2020 2021/2015/2020 2021/2015/2020	*1/Well#2/Well#3 /2021/2021 /2021/2021 /2021/2021 /2021/2021	0.2 500 15 0.3 0.0 3	5	0.13 2.6 40 0.66 0.088 3.0	NA NA NA 0.66-1.0 NA NA	ND 3.23 8 ND ND 3	ND 6.23 ND ND ND 1	N 1 0.0 N N	ND 1.6 ND 032 ND ND	ND 2.0 ND ND 0.019 ND	No No No No No	Erosion of natural deposits; residual from some surface water treatment processes Runoff/leaching from natural deposits; seawater influence Naturally occurring organic materials Leaching from natural deposits; industrial wastes Leaching from natural deposits Naturally occurring organic materials	
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¹Turbidity is a measure of the cloudiness of the water and is an indicator of the effectiveness of the filtration system.

² Copper was detected at the action level at a home during non-routine corrosive potential checks of our well water in 2021. The results are only representative for that home. An increase in corrosion control chemical is now applied.

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Maximum Residual Disinfectant Level Goal (MRDLG): The level of the use of disinfectants to control microbial contaminants.

ppm: parts per million or milligrams per liter (mg/L) of a drinking water disinfectant below which there is no known **ppb**: parts per billion or micrograms per liter (µg/L) or expected risk to health. MRDLGs do not reflect the benefits **pCi/L:** picocuries per liter (a measure of radiation)