

Greater Santa Rosa Regional Annual Water Quality Report

Public Water System #090400226

2020

This report is a snapshot of your water quality. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with information because informed customers are our best allies.

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. The Environmental Protection Agency (EPA) and 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?

Your water comes from 2 ground water sources.

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 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 including:

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, which 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, which 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, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which 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 prescribes 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.

WATER QUALITY TABLE

The table below lists all of the drinking water contaminants detected during 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. EPA requires monitoring for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MRDLG	MRDL	Your Water	Range Low High		Sample Date	MRDL Exceeded	Typical Source
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Disinfectants

Chlorine Units: ppm	4	4	0.5883	0.2	1.75	2020	No	Drinking water additive used for disinfection
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Contaminants	MCLG	MCL	Your Water	Range Low High		Sample Date	Violation	Typical Source
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Disinfection By-Products

Total Trihalomethanes (TTHMs) Units: ppb	N/A	80	10.6	4.2	17	2020	No	By-product of drinking water chlorination
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Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			

Inorganic Contaminants

Arsenic Units: ppb	0	10	5	0.52	5.9	2020	No	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium Units: ppm	2	2	0.11	N/A	N/A	2019	No	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride Units: ppm	4	4	0.95	N/A	N/A	2019	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate [reported as Nitrogen] Units: ppm	10	10	4.9	N/A	N/A	2020	No	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium Units: ppm			96	87	96	2019	N/A	Erosion of natural deposits; salt water intrusion

Contaminants	MCLG	Action Level	Your Water	Range	Sample Date	A.L. Exceeded	Typical Source
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Lead and Copper Rule

Copper Units: ppm - 90th Percentile	1.3	1.3	0.11	0 sites over Action Level	2018	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead Units: ppb - 90th Percentile	0	15	1.1	0 sites over Action Level	2018	No	Corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			

Radiological Contaminants

Adjusted Alpha (Excl. Radon & U) Units: pCi/L	0	15	1.8	N/A	N/A	2018	No	Erosion of natural deposits
Uranium (combined) Units: ppb	0	30	2.7	N/A	N/A	2018	No	Erosion of natural deposits

Special Education Statements

Additional Information for Lead

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. PWS system 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 at 1-800-426-4791 or at <http://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water>.

Microbiological Testing

We are required to test your water regularly for signs of microbial contamination. Positive test results could lead to follow-up investigations called assessments and potentially the issuance of public health advisories. Assessments could lead to required corrective actions. The information below summarizes the results of those tests.

Sampling Requirements	Sampling Conducted (months)	Total E.Coli Positive	Assessment Triggers	Assessments Conducted
2 Samples due monthly	12 out of 12	0	0	0

Significant Deficiencies

Sanitary deficiencies are defects in a water system's infrastructure, design, operation, maintenance, or management that cause, or may cause interruptions to the "multiple barrier" protection system and adversely affect the system's ability to produce safe and reliable drinking water in adequate quantities.

The following is a listing of significant deficiencies that have yet to be corrected. Your public water system is still working to correct these deficiencies and interim milestones are shown, as applicable.

Deficiency Title: Storage Tank 2 Opening in Top of Tank

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: Contaminants could be washed into the tank through the sight target cable hole.

Corrective Action Plan: The openings should be sealed down to the tank surface.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11, 2021, contract work is underway.

Deficiency Title: Storage Tank Overflow Screen

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: The overflow for Storage Tank 1 is not screened. This can allow entry of small animals and insects into the tank.

Corrective Action Plan: The overflow for this tank should be properly screened to prevent entry of insects and birds into the storage tank.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11,2021, contract work is underway.

Deficiency Title: Storage Tank 1 and 2 Openings

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: The openings where the sight gauge cables enter the conduits for Storage Tanks 1 and 2 are large enough to allow entry of insects through the conduit into the tanks.

Corrective Action Plan: TOUA has installed caps over the conduits on several ground level tanks to address this issue.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11,2021, contract work is underway.

Deficiency Title: Storage Tank 1 Vent Screen

Date Identified: 7/19/2019 Overall Due Date: 5/31/2021

Deficiency Description: The insect screen inside the lower plate for the vent has lifted off the plate base and has gaps that would allow entry of insects.

Corrective Action Plan: The insect screen should be re-installed or replaced in the vent structure.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11,2021, vent screen was replaced.

Deficiency Title: Storage Tank 2 Vent Screen

Date Identified: 7/19/2019 Overall Due Date: 5/31/2021

Deficiency Description: There are gaps between the screen and vent opening for this storage tank. Additionally, the screen has openings that appear to be a mesh size that would allow entry of small insects.

Corrective Action Plan: The vent screen should be re-installed or replace to prevent entry of small insects.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11,2021, vent screen was replaced.

Deficiency Title: Storage Tank 1 Cleaning, Inspection, and Rehabilitation

Date Identified: 7/19/2019 Overall Due Date: 9/30/2021

Deficiency Description: The interior of Storage Tank 1 is old and in poor condition.

Corrective Action Plan: It is recommended that the storage tank be scheduled for inspection to determine if complete rehabilitation or repairs are needed. Subsequent repairs may be necessary.

Milestones completed

Corrective Action Notes: Inspection and repairs (not rehabilitation) will be addressed under IHS Water Storage Tank Inspection & Repair Project. Project delayed due to COVID-19. May 11,2021, contract work is underway for complete tank inspection.

Definitions

Term	Definition
ppm	parts per million, or milligrams per liter (mg/L)
ppb	parts per billion, or microgram per liter (ug/L)
positive samples	the number of positive samples taken that year
% positive samples/month	% of samples taken monthly that were positive
pCi/L	picocuries per liter
ND	Not detected
N/A	Not applicable
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.
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.
MRDLG	Maximum Residual Disinfectant 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.
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	Action Level: The concentration of a contaminant which, if exceeded, trigger treatment or other requirements which a water system must follow.
90th Percentile	Statistical value used to determine if Action Level is exceeded. Determined by calculating the value at which 90% of the samples tested were below that value.

How can I get involved?

Please feel free to contact the number provided below for more information or for a translated copy of the report if you need it in another language.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information please contact:

Ross Schroeder, Manager, P.O. Box 816 , Sells, Arizona 85634
Phone: (520) 383-5837 **Fax:** (520) 419-4525