



# County Service Area 42

## 2019 Consumer Confidence Report General District Information

### CSA 42

Is routinely monitored for constituents in the District's drinking water according to Federal and State laws. The tables show the results of the District's monitoring for the period of January 1st through December 31st, 2019.

### Questions about this report or concerning the water system?

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Monday through Friday  
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**Trevor Leja** Deputy Director

*"We strive for efficiency and sustainability while promoting the safety and health of the communities we serve."*



**Steve Samaras** Division Manager

*"Our team of State-licensed experts work diligently to provide the essential water services to your community. This year's CCR represents a summary of the water quality testing conducted during 2019 to protect your health."*

County Service Area 42 (CSA 42) was established by the County of San Bernardino Board of Supervisors on December 27, 1965, and is a Board-governed water district within the Special Districts Department (Department), Water and Sanitation Division, that provides water services to a community of approximately 525 customers in Oro Grande.

The water system consists of five ground water wells—four of which are active, one 246,000 gallon water tank, and approximately four miles of water line. There are 142 metered water connections utilizing the cellular read system.

Management and staff of CSA 42 work as a team to ensure that the highest quality water is provided to our customers. A diligent regimen of testing and analysis for bacteriological, chemical, and radiological contaminants, along with physical qualities of the water is conducted throughout the year to ensure the highest water quality.

It is important to keep customers informed about the quality of water delivered over the past year. This year's annual Consumer Confidence Report (CCR), contains information about the contaminants detected in 2019 and previous years. The Department's responsibility is to provide a safe and dependable supply of drinking water.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) 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. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health. Additional information on bottled water is available on the California Department of Public Health website at <https://www.cdph.ca.gov/Programs/CEH/DFDCS/Pages/FDBPrograms/FoodSafetyProgram/Water.aspx>.

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 USEPA's Safe Drinking Water Hotline at 1-800-426-4791 or visit their website at <https://www.epa.gov/dwstandardsregulations/drinking-water-contaminant-human-health-effects-information>.

This document is not a substitute for regulations; nor is it a regulation itself. Thus, it does not impose legally-binding requirements on the State Board or the Department, and may not apply to a particular situation based upon any member of the public.

This CCR reflects changes in drinking water regulatory requirements during 2019. All water systems are required to comply with the state Total Coliform Rule. Beginning April 1, 2016, all water systems are also required to comply with the federal Revised Total Coliform Rule. The new federal rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbials (i.e., total coliform and E. coli bacteria). The USEPA anticipates greater public health protection as the new rule requires water systems that are vulnerable to microbial contamination to identify and fix problems. Water systems that exceed a specified frequency of total coliform occurrences are required to conduct an assessment to determine if any sanitary defects exist. If found, these must be corrected by the water system.



### ¡MUY IMPORTANTE!

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

## WATER SOURCES

**Wells 1, 2 and 3:** Ground Water; located in the Alto Subarea

**Wells 4 and 5:** Ground Water; located in the Alto Subarea

## SOURCE WATER PROTECTION TIPS

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides—they contain hazardous chemicals that can reach your drinking water source.
- Prevent septic system leaching to source water.
- Dispose of chemicals properly; take used motor oil to a recycling center.

## WATER CONSERVATION TIPS

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference—try one today and soon it will become second nature.

- Take short showers—a 5 minute shower uses 10 to 25 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving to save up to 500 gallons a month.
- Use a water-efficient showerhead. They are inexpensive, easy to install, and can save you up to 740 gallons a month.
- Fix leaking toilets and faucets.
- Teach your kids about water conservation to ensure a future generation that uses water wisely.

## The subsequent tables provide many terms and abbreviations that customers may not be familiar with. To understand these terms, the district has provided the following definitions and general information:

**1, 2, 3-trichloropropane (1,2,3-TCP)** had a notification level (NL) of 5 ppt until December 14, 2017, when the MCL of 5 ppt became effective.

**Hexavalent Chromium** there is currently no MCL for hexavalent chromium. The previous MCL of 0.010 mg/L was withdrawn on September 11, 2017.

**Inorganic contaminants**, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

**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.

**Maximum Residual Disinfectant Level (MRDL)** The level of a disinfectant added for water treatment that may not be exceeded at the customer's tap.

**Maximum Residual Disinfectant Level Goal (MRDLG)** The level of a disinfectant added for water treatment below which there is no known or expected health risk. MRDLGs are set by the U.S. Environmental Protection Agency.

**MG** Million gallons

**Microbial contaminants**, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Million Fibers per Liter (MFL)** million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

**Millirems per year (mrem/yr)** measure of radiation absorbed by the body.

**Nephelometric Turbidity Unit (NTU)** nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**Non-Detect (ND)** laboratory analysis indicates that the constituent is not present or not tested.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, that are byproduct of industrial processes and petroleum production, and can also come from gas stations, urban stormwater run-off, agricultural application, and septic systems.

**Parts per billion (ppb)** one part per billion corresponds to one minute in 2,000 years.

**Parts per million (ppm)** one part per million corresponds to one minute in two years or a single penny in \$10,000.

**Parts per quadrillion (ppq)** one part per quadrillion corresponds to one minute in 2,000,000,000 years.

**Parts per trillion (ppt)** one part per trillion corresponds to one minute in 2,000,000 years.

**Pesticides and herbicides**, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

**Picocuries per liter (pCi/L)** Picocuries per liter is a measure of the radioactivity in water.

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

**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.

**Radioactive contaminants**, that can be naturally-occurring or be the result of oil and gas production and mining activities.

**Regulatory Action Level (AL)**

The concentrations of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**UCMR4 Statement** Additional Unregulated Pollutants were added to the UCMR4 monitoring list.

**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. Contaminants that may be present in source water are included on the following pages:



## PRIMARY DRINKING WATER STANDARDS

County of San Bernardino – CSA 42							
Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Sample Year	Typical Source of Bacteria	
<b>Total Coliform</b> (State Total Coliform Rule)	2	0	1 positive monthly sample	0	2019	Naturally present in the environment	
<b>Fecal Coliform or E. Coli</b> (State Total Coliform Rule)	1	0	A routine sample and a repeat sample are total coliform positive, and one of these is also fecal coliform or E. coli positive	–	2019	Human and animal fecal waste	
<b>E. Coli</b> (Federal Revised Total Coliform Rule)	0	0	(a)	0	2019	Human and animal fecal waste	
(a) Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .							
Lead and Copper	Units	Action Level	PHG	90th Percentile	# Samples, # Exceeded AL	Sample Year	Likely Source of Contamination
<b>Lead (Pb)</b>	ppb	15	0.2	ND	5 samples, 0 exceeded AL	2018	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
<b>Copper (Cu)</b>	ppm	1.3	0.3	0.49	5 samples, 0 exceeded AL	2018	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Radioactive Contaminants							
Contaminant	Primary MCL	PHG (MCLG)	Range of Detections	Average Level	MCL Violation	Sample Year	Likely Source of Contamination
<b>Gross Alpha</b>	15 pCi/L	0.00	3.8	3.8	NO	2019	Erosion of natural deposits
Primary Inorganic Contaminants							
Contaminant	Primary MCL	PHG (MCLG)	Range of Detections	Average Level	MCL Violation	Sample Year	Likely Source of Contamination
<b>Nitrate as N (NO<sub>3</sub>-N)</b>	10 ppm	10	0–1.6	0.79	NO	2019	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
<b>Fluoride (F)</b>	2.0 ppm	1	0.28	0.28	NO	2019	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Disinfectant Byproducts and Chemical Disinfectant							
Contaminant	Primary MCL	PHG (MCLG)	Range of Detections	Average Level	MCL Violation	Sample Year	Likely Source of Contamination
<b>Cl Res Total (Field)</b>	MRDL = 4.0 ppm	MRDLG = 4	0.19–1.25	0.70	NO	2019	Drinking water disinfectant added for treatment
<b>Total Trihalomethanes (TTHM)</b>	80 ppb	0	ND	ND	NO	2019	Byproduct of drinking water chlorination
<b>Total Haloacetic Acids (HAA5)</b>	60 ppb	N/A	8.9	8.9	NO	2018	Byproduct of drinking water disinfection



## SECONDARY STANDARDS

Contaminant	MCL	PHG (MCLG)	Range of Detections	Average Level	MCL Violation	Sample Year	Likely Source of Contamination
<b>Odor Threshold</b>	3 TON	N/A	1-1	1	NO	2019	Naturally occurring organic materials
<b>Turbidity</b>	5 NTU	N/A	ND-0.4	0.12	NO	2019	Soil runoff
<b>Chloride (Cl)</b>	500 mg/L	N/A	83	83	NO	2019	Runoff/leaching from natural deposits; seawater influence
<b>Specific Conductance (E.C.)</b>	1600 umhos/cm	N/A	1100	1100	NO	2019	Substances that form ions when in water; seawater influence
<b>Total Dissolved Solids/TDS</b>	1000 ppm	N/A	740	740	NO	2019	Runoff/leaching from natural deposits

## ADDITIONAL CONSTITUENTS

Contaminant	MCL	PHG (MCLG)	Range of Detections	Average Level	MCL Violation	Sample Year	Likely Source of Contamination
<b>Aggressive Index</b>	N/A	N/A	11.93	11.93	N/A	2019	N/A
<b>pH (Lab)</b>	N/A	N/A	7.3	7.3	N/A	2019	N/A
<b>Alkalinity, Total (as CaCO<sub>3</sub>) (mg/L)</b>	N/A	N/A	170	170	N/A	2019	N/A
<b>Bicarbonate (HCO<sub>3</sub>) (mg/L)</b>	N/A	N/A	210	210	N/A	2019	N/A
<b>Hardness, Total (as CaCO<sub>3</sub>) (mg/L)</b>	N/A	N/A	360	360	N/A	2019	N/A
<b>Total Anions (meq/L)</b>	N/A	N/A	12	2	N/A	2019	N/A
<b>Calcium (Ca) (mg/L)</b>	N/A	N/A	110	110	N/A	2019	N/A
<b>Magnesium (Mg) (mg/L)</b>	N/A	N/A	19	19	N/A	2019	N/A
<b>Potassium (K) (mg/L)</b>	N/A	N/A	2.7	2.7	N/A	2019	N/A
<b>Sodium (Na) (mg/L)</b>	N/A	N/A	86	86	N/A	2019	N/A
<b>Sulfate (SO<sub>4</sub>) (mg/L)</b>	500 ppm	N/A	290	290	NO	2019	N/A
<b>Boron (B) (mg/L)</b>	1 ppm	N/A	340	340	NO	2019	N/A
<b>Zinc (Zn) (mg/L)</b>	5 ppm	N/A	ND	ND	NO	2019	N/A

## DETECTION OF UNREGULATED CONSTITUENTS

Chemical or Constituent (CCR Units)	Sample Date	Average Level	Range of Detections	Notification Level	Health Effects Language
<b>Vanadium (ppb)</b>	2019	4.5	4.5	15	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.
<b>Hexavalent Chromium (ppb)</b>	2019	ND	ND	N/A	Some people who drink water containing hexavalent chromium in excess of the MCL over many years may have an increased risk of getting cancer.



## Synthetic Organic Contaminants including Pesticides and Herbicides

Contaminants (CCR units)	Sample Date	Average Level (PPM)	MCL (PPM)	PHG (PPB)	MCL Violation	Health Effects Language	Major Source in Drinking Water
1,2,3 -Trichloropropane	2018	0.00	0.000005	0.0007	NO	Some people who drink water containing 1,2,3 trichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.	Discharge from industrial and agricultural chemicals factories; leaching from hazardous waste site; used as cleaning and maintenance solvent, paint and varnish remover, and cleaning and degreasing agent; byproduct during the production of other compounds and pesticides.

### SHOULD CUSTOMERS BE CONCERNED?

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 microbiological contaminants are available from the Safe drinking water hotline at 1-800-426-4791.

Secondary Standards: There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics.

Some people who drink water containing fluoride in excess of the federal MCL of 4mg/L over many years may get bone disease, including pain and tenderness of the bones. Children who drink water containing fluoride in excess of the State MCL of 2 mg/L may get mottled teeth.

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. The Special Districts Department, Water and Sanitation Division 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 at <https://www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water>.

Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.

