

ANNUAL DRINKING WATER QUALITY REPORT

We're pleased to present to you this year's Annual Water Quality Report. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. Our source water comes from 3 wells providing ground water from the 400 foot aquifer.

A source water assessment was conducted for the CCSD System in December 2001. The source considered most vulnerable to the following activities associated with contaminants detected in the water supply is salt water intrusion. In addition, the source is considered most vulnerable to agriculture activities and sewer collection systems.

We invite you to attend any of our regular scheduled Board meetings, held on the third Tuesday of each month at 4:30 pm at the District office or **contact General Manager Eric Tynan at (831) 633-2560. Website: CastrovilleCSD.org.**

CONTAMINANTS IN DRINKING WATER

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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. EPA/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).

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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

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.

Contaminants that may be present in source water before we treat it 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.

In order to ensure that tap water is safe to drink, 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. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.



Castroville Community Services District
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Castroville Community Services District

2015 Annual Water Quality Report



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, 2015.

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

USEFUL TERMS & DEFINITIONS

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

- ◆ **Non-Detects (ND)** - laboratory analysis indicates that the constituent is not present.
- ◆ **Parts per million (ppm) or Milligrams per liter (mg/l)** - one part per million corresponds to one minute in two years or a single penny in \$10,000
- ◆ **Parts per billion (ppb) or Micrograms per liter (ug/L)** - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- ◆ **Parts per trillion (ppt) or Nanograms per liter (nanograms/l)** - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- ◆ **Picocuries per liter (pCi/L)** - a measure of the radioactivity in water.
- ◆ **Millirems per year (mrem/yr)** - measure of radiation absorbed by the body.
- ◆ **Million Fibers per Liter (MFL)** - a measure of the presence of asbestos fibers that are no longer than 10 micrometers.
- ◆ **Nephelometric Turbidity Unit (NTU)** - a measure of the cloudiness of water.
- ◆ **Regulatory Action Level (AL)** - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- ◆ **Treatment Technique (TT)** - a required process intended to reduce the level of a contaminant in drinking water.

- ◆ **Maximum Contaminant Level** - The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology. Secondary MCLs are to protect the odor, taste, and appearance of drinking water.
- ◆ **Maximum Contaminant Level Goal** - The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.
- ◆ **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 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 Standard (PDWS)** - MCLs and MRDLs 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. PHG's are set by the California Environmental Protection Agency.

WATER QUALITY DATA

Castroville Community Services District routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2015. We sample for over 112 contaminants but only those that show any detection are listed below. All detections were below regulatory actions levels.

WTable 1 - sampling results showing the detection of coliform bacteria

Microbiological Contaminants	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	1	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or E. coli	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or E. coli	0	Human and animal fecal waste

Table 2 - sampling results showing the detection of Lead and copper

Lead and Copper	No. of samples collected	90th percentile	No. Sites exceeding AL	AL	MCLG	Typical Source of Contaminant
Lead (ppb)	20	ND	0	15	2	Corrosion of household plumbing; industrial manufacturers; erosion of natural deposits.
Copper (ppm)	20	0.333	0	1.3	1.3	Corrosion of household plumbing; erosion of natural deposits; leaching from wood preservatives.

Table 3 - sampling results for sodium and hardness

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG/ (MCLG)	Typical Source of Contaminant
Sodium (ppm)	Feb 2013	105	63-149	none	none	Generally found in ground and surface water
Hardness (ppm)	Feb 2013	246	170-396	none	none	Generally found in ground and surface water

Table 4 - detection of contaminants with a Primary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG/ (MCLG)	Typical Source of Contaminant
Nitrate (as NO ₃), (ppm)	Jan 2015	3	1-4	45	45/(N/A)	Fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Gross Alpha, (pCi/L)	Feb 2013	4.05	1.43-5.06	15	N/A/(N/A)	Erosion of natural deposits
Chlorine (ppm)	Weekly	.2	.25-.14	4	MRDL	Disinfection
Aluminum, (ppb)	Feb 2013	20	0-20	1000	N/A/(N/A)	Erosion of natural deposits, surface water treatment
Arsenic (ppm)	Feb 2013	3	3-3	10	0.000004	Erosion of natural deposits
Fluoride (ppm)	Feb 2013	0.13	1-.2	2.0	1	Erosion of natural deposits
Hexavalent Chromium (ppb)	July 2014	5.36	4.2-6.9	10	0.02	Leaching from natural deposits

Table 5 - detection of contaminants with a Secondary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Average Level Detected	Range of Detections	MCL	PHG/ (MCLG)	Typical Source of Contaminant
Color, units	Feb 2013	6	0-6	15	N/A/(N/A)	Naturally occurring organic materials
Chloride, (ppm)	Feb 2013	185	60-381	250	N/A/(N/A)	Runoff/leaching from natural deposits; seawater influence
Iron, (ppb)	Feb 2013	69	10-174	300	N/A/(N/A)	Leaching from natural deposits; industrial wastes
Sulfate, (ppm)	Feb 2013	20	10-29	500	N/A/(N/A)	Runoff/leaching from natural deposits industrial wastes
Total Dissolved Solid, (ppm)	Feb 2013	629	354-1046	1000	N/A/(N/A)	Runoff/leaching
Odor, (TON)	Feb 2013	1.3	1-2	3	N/A (N/A)	Naturally occurring organic materials
Turbidity (NTU)	Feb 2013	.01	0-10	5	N/A (N/A)	Soil runoff/Specific
Conductivity (uS/cm)	Feb 2013	996	589-1589	1600	N/A (N/A)	Seawater influence