

**FONTANA WATER COMPANY  
-ANNUAL WATER QUALITY REPORT-  
-YEAR 2009-**

**This report contains important information about your drinking water.  
Este informe contiene información muy importante sobre su agua potable.  
Tradúzcalo o hable con alguien que lo entienda bien.**

The sources of water provided to all customers are surface water, groundwater, and purchased water. The source water percentages are approximately 85% groundwater, 14% surface water and 1% purchased water. Groundwater is produced from the Chino Basin, Rialto Basin, Lytle Basin, and an unnamed basin. Surface water is from Lytle Creek and State Water Project water treated at Fontana Water Company's Sandhill Water Treatment Plant.

All water samples are collected by state-certified employees of the water company. Samples are analyzed by state-certified independent laboratories and the results are forwarded to the California Department of Public Health. The following report provides detailed information about the quality of the water delivered to the customers. The water supplied by Fontana Water Company complies with all state and federal safe drinking water standards and regulations.

**DETECTED WATER QUALITY CONSTITUENTS - GROUNDWATER**

**Microbiological**

Water Quality Constituent	Units	PHG or (MCLG)	MCL	Highest Percentage of Positive Samples Collected	Sample Year	Likely Source of Detected Constituent
Total Coliform Bacteria	%	0	(a)	0.2	2009	Naturally present in the environment

**Radiochemicals**

Water Quality Constituent	Units	PHG or (MCLG)	MCL	Range	Average	Sample Year	Likely Source of Detected Constituent
Gross Alpha	pCi/L	0	15	ND - 7.8	3.3	2008	Erosion of natural deposits
Uranium	pCi/L	0.5	20	0.3 - 2.5	1.5	2008	Erosion of natural deposits
Radon	pCi/L	NS	NS	105 - 744	342	2001	Erosion of natural deposits
Combined Radium	pCi/L	NS	5	1.77 - 2.29	2.03	2000	Erosion of natural deposits

**Inorganics**

Arsenic	ppb	0.004	10	ND - 7.0	1.3	2009	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Total Chromium	ppb	NS	50	0.3 - 4.3	1.9	2009	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride	ppm	1.0	2.0	0.2 - 0.8	0.3	2009	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as NO <sub>3</sub> )	ppm	45	45	4 - 37	16	2009	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Perchlorate	ppb	6	6	ND - 4.6	0.3	2009	Discharge from industrial operations producing solid rocket propellant, fireworks, explosives, flares, and matches

**Organics**

Tetrachloroethylene	ppb	0.06	5.0	ND - 1.4	ND	2009	Discharge from factories, dry cleaners and auto shops (metal degreaser)
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**Secondary Standards (Aesthetic Standards)**

Chloride	ppm	NS	500	2.5 - 18.0	8.2	2009	Runoff and leaching from natural deposits
Color	units	NS	15	<3 - 5	<3	2009	Naturally-occurring organic materials
Hardness (CaCO <sub>3</sub> )	ppm	NS	NS	92 - 190	153	2009	Leaching from natural deposits
Odor---Threshold	units	NS	3	1	1	2009	Naturally-occurring organic materials
Sodium	ppm	NS	NS	2.6 - 23.5	14.0	2009	Runoff and leaching from natural deposits
Specific Conductance	µmho/cm	NS	1600	270 - 440	360	2009	Substances that form ions when in water
Sulfate	ppm	NS	500	10 - 24	18	2009	Runoff and leaching from natural deposits; industrial wastes
Total dissolved solids	ppm	NS	1000	110 - 290	226	2009	Runoff and leaching from natural deposits
Turbidity (b)	units	NS	5	<0.1 - 3.4	0.1	2009	Soil runoff

**Additional Constituents (Unregulated)**

Alkalinity (CaCO <sub>3</sub> )	ppm	NS	NS	120 - 180	150	2009	Unknown
Calcium	ppm	NS	NS	29 - 63	49	2009	Unknown
Dichlorodifluoromethane	ppb	NS	NS	ND - 0.8	0.2	2009	Unknown
Magnesium	ppm	NS	NS	4.4 - 9.0	7.0	2009	Unknown
pH	units	NS	NS	7.4 - 7.9	7.7	2009	Unknown
Potassium	ppm	NS	NS	1.1 - 2.7	1.9	2009	Unknown
Vanadium	ppb	NS	NS	ND - 20.0	6.3	2005	Unknown

**DETECTED WATER QUALITY CONSTITUENTS - SURFACE WATER**

**Clarity**

Water Quality Constituent	Units	MCL	MCLG	Level Found	Range	Likely Source of Detected Constituent
Turbidity (b)	NTU	TT = 5.0 NTU	N/A	<0.5 NTU	N/A	Soil runoff
		TT = 95% of Samples ≤0.5	N/A	100% (c)	N/A	

**Microbiological**

Water Quality Constituent	Units	PHG (MCLG)	MCL	Highest Percentage of Positive Samples Collected	Sample Year	Likely Source of Detected Constituent
Total Coliform Bacteria	%	0	(a)	0	2009	Naturally present in the environment

**Radiochemicals**

Water Quality Constituent	Units	PHG (MCLG)	MCL	Range	Average	Sample Year	Likely Source of Detected Constituent
Gross Alpha	pCi/L	NS	15	8.6	8.6	2007	Erosion of natural deposits
Radon	pCi/L	NS	NS	382	382	2000	Erosion of natural deposits
Uranium	pCi/L	NS	20	3.0	3.0	2007	Erosion of natural deposits

**Inorganics**

Arsenic	ppb	0.004	10	ND	ND	2009	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Fluoride	ppm	1.0	2.0	0.4	0.4	2009	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as NO3)	ppm	45	45	3	3	2009	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits

**Secondary Standards (Aesthetic Standards)**

Chloride	ppm	NS	500	3.8	3.8	2009	Runoff and leaching from natural deposits
Color	units	NS	15	<3	<3	2009	Naturally-occurring organic materials
Hardness (CaCo3)	ppm	NS	NS	140	140	2009	Runoff and leaching from natural deposits
Odor---Threshold	units	NS	3	1	1	2009	Naturally-occurring organic materials
Sodium	ppm	NS	NS	7.5	7.5	2009	Runoff and leaching from natural deposits
Specific Conductance	µmho/cm	NS	1600	310	310	2009	Substances that form ions when in water
Sulfate	ppm	NS	500	19	19	2009	Runoff and leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	NS	1000	210	210	2009	Runoff and leaching from natural deposits

**Additional Constituents (Unregulated)**

Alkalinity (CaCO3)	ppm	NS	NS	150	150	2009	Unknown
Calcium	ppm	NS	NS	43	43	2009	Unknown
Magnesium	ppm	NS	NS	6.7	6.7	2009	Unknown
Potassium	ppm	NS	NS	2.3	2.3	2009	Unknown
pH	units	NS	NS	8.1	8.1	2009	Unknown
Total Organic Carbon	ppm	NS	NS	0.3 - 1.4	0.9	2009	Runoff/Leaching from natural deposits
Vanadium	ppb	NS	NS	3.4	3.4	2003	Unknown

**DETECTED WATER QUALITY CONSTITUENTS - PURCHASED WATER**

**Inorganics, Organic, & Microbiological**

Aluminum	ppm	0.6	1.0	ND - 0.22	0.03	2009	Erosion of natural deposits; residue from some surface water treatment processes
Arsenic	ppb	0.004	10	ND - 3.5	0.2	2009	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Dibromochloropropane	ppt	1.7	200	ND - 140	30	2009	Banned nematocide that may still be present in soils due to runoff/leaching from former use on soybeans, cotton, vineyards, tomatoes and tree fruit
Fluoride	ppm	1.0	2.0	ND - 0.65	0.29	2009	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as NO3)	ppm	45	45	ND - 30	13	2009	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Perchlorate	ppb	6.0	6.0	ND - 4.0	0.02	2009	Environmental contamination from historic aerospace or other industrial operations that used or use, store or dispose of perchlorate and its salts

**DETECTED WATER QUALITY CONSTITUENTS - PURCHASED WATER CONTINUED**

**Secondary Standards (Aesthetic Standards)**

Water Quality Constituent	Units	PHG (MCLG) [MRDLG]	MCL [MRDL]	Range	Average	Sample Year	Likely Source of Detected Constituent
Chloride	ppm	NS	500	2 - 110	18.0	2009	Runoff and leaching from natural deposits
Color	Units	NS	15	ND - 10	ND	2009	Natural occurring organic materials
Copper	ppb	NS	1000	0 - 790	43	2009	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Hardness (CaCo3)	ppm	NS	NS	79 - 250	146	2009	Runoff and leaching from natural deposits
Iron	ppm	NS	300	ND - 0.71	ND	2009	Leaching from natural deposits
Odor---Threshold	units	NS	3	1.0 - 2.0	1.0	2009	Naturally-occurring organic materials
Sodium	ppm	NS	NS	3.8 - 73.0	20.8	2009	Runoff and leaching from natural deposits
Specific Conductance	µmho/cm	NS	1600	230 - 600	349	2009	Substances that form ions when in water, seawater influence
Sulfate	ppm	NS	500	May-52	23	2009	Runoff and leaching from natural deposits; industrial wastes
Total Dissolved Solids	ppm	NS	1000	150 - 360	208	2009	Runoff and leaching from natural deposits
Turbidity (b)	NTU	NS	5	ND - 6.5	0.1	2009	Soil runoff
Zinc	ppb	NS	5000	ND - 53	1.0	2009	Runoff, leaching from natural deposits, industrial wastes

**DISINFECTANT/DISINFECTION BY-PRODUCTS**

Total Trihalomethanes	ppb	NS	80	ND - 42.0	10.2	2009	By-product of drinking water disinfection
Haloacetic Acids	ppb	NS	60	ND - 19.0	4.4	2009	By-product of drinking water disinfection
Disinfection Residual	ppm	[4]	[4]	0.3 - 1.0	0.6	2009	Drinking water disinfectant

Pursuant to Title 22 of the California Code of Regulations, Lead and Copper monitoring was completed in 2009. The following table summarizes the results of that monitoring. The next monitoring for Lead and Copper will be completed by September 2011.

**LEAD AND COPPER MONITORING (50 SAMPLES TAKEN)**

Water Quality Constituent	Units	Action Level	Sample Year	90th Percentile	Number Of Samples Exceeding The Action Level	Likely Source of Detected Constituent
Lead	ppb	15	2009	ND	0	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; and erosion of natural deposits
Copper	ppb	1300	2009	220	0	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) AND CALIFORNIA DEPARTMENT OF PUBLIC HEALTH REQUIRE FONTANA WATER COMPANY TO PROVIDE THE FOLLOWING INFORMATION:**

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 (1-800-426-4791).

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 microbial contaminants are available from the Safe Drinking Water Hotline (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 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 stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that 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, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities.

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. Fontana Water Company 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>.

Nitrate: Nitrate in drinking water at levels above 45 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

*Arsenic: While your drinking water complies with federal and state standard for arsenic, it does contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the cost of removing arsenic from drinking water. The USEPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.*

*Radon: Radon is a radioactive gas that you can't see, taste, or smell. It is found throughout the U.S. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes, and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 picocuries per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that are not too costly. For additional information, call your State radon program (1-800-754-7236), or the EPA Safe Drinking Water Act hotline (1-800-426-4791), or the National Safety C*

*In order to ensure that tap water is safe to drink, the USEPA and the California Department of Public Health prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The California Department of Public Health regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.*

Fontana Water Company completed groundwater and surface water source assessments in 2002. New assessments were completed in 2003 for new sources added to the system. The surface water source is considered vulnerable to contaminants resulting from public recreation in and around the source water, street run-off of oils, and incidental water contamination due to immediate proximity of dwellings to the stream. Groundwater sources are considered vulnerable to discharge from industry, factories, landfills, dry cleaners, automobile repair shops, gas stations, septic systems, known contaminant plumes, illegal dumping, high density housing and underground storage tanks. Copies of the groundwater and surface water source assessments are available for review at Fontana Water Company's main office. All surface water and groundwater sources are treated and disinfected before the water is distributed to the customers.

#### **Additional Water Quality Information**

In addition to the constituents listed in this report, Fontana Water Company conducted monitoring for over 100 additional constituents and the results show none of those constituents detected in the water. Included in this additional monitoring were constituents for which the California Department of Public Health and USEPA have not yet set standards. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old. For additional water quality information, contact: Oscar Ramos, Water Quality Superintendent at (626) 448-6183, or write to Fontana Water Company, Post Office Box 987, Fontana, California 92334.

#### **Definitions and Footnotes:**

- MCL = Maximum Contaminant Level: 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.
- 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 are set by the USEPA.
- 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.
- NTU = Nephelometric Turbidity Units
- PHG = Public Health Goal: 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.
- PDWS = Primary Drinking Water Standard: MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.
- RAL = Regulatory Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- TT = Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
- pCi/L = picocuries per Liter
- NS = No Standard
- ND = None Detected
- < = less than
- N/A = Not Applicable
- ppm = parts per million
- ppb = parts per billion
- ppt = parts per trillion
- µmho/cm = micromhos per centimeter
  - (a) = When 40 or more routine samples are collected per month, no more than 5% of the samples may be total coliform positive.
  - (b) = Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.
  - (c) = 100% of the turbidity samples taken during 2009 were less than the MCL of 5.0 NTU.

This report is posted on the internet at [www.fontanawater.com](http://www.fontanawater.com)