

**AMARILLO MUTUAL WATER COMPANY
2011 WATER QUALITY**

CONSTITUENT (UNITS)	MCL	PHG (MCLG)	GROUNDWATER SOURCES		MOST RECENT TEST YEAR	TYPICAL SOURCE OF CONTAMINANT
			Average Level	Range of Detections		
PRIMARY DRINKING WATER STANDARDS – Health Related Standards						
INORGANIC CHEMICALS						
Fluoride (mg/l)	2.0	1	0.64	0.61 - 0.67	2010	Erosion of natural deposits
Nitrate as NO3 (mg/l)	45	45	22	16 - 23	2011	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
ORGANIC CHEMICALS						
Tetrachloroethylene (PCE) (µg/l)	5	0.06	3.0	1.4 - 3.5	2011	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
RADIOACTIVITY						
Gross Alpha (pCi/l)	15	(0)	5.0	4.1 - 6.0	2008	Erosion of natural deposits
Uranium (pCi/l)	20	0.43	5.7	2.0 - 8.1	2006	Erosion of natural deposits
SECONDARY DRINKING WATER STANDARDS – Aesthetic Standards, Not Health-Related						
Chloride (mg/l)	500	NA	19	18 - 20	2009	Erosion of natural deposits
Odor (Units)	3	NA	1	1	2009	Naturally occurring organic materials
Specific Conductance (µmho/cm)	1,600	NA	560	510 - 600	2009	Substances that form ions in water
Sulfate (mg/l)	500	NA	50	43 - 56	2009	Erosion of natural deposits
Total Dissolved Solids (mg/l)	1,000	NA	370	350 - 380	2011	Erosion of natural deposits
Turbidity (NTU)	5	NA	0.44	0.23 - 0.65	2009	Soil runoff
UNREGULATED CONSTITUENTS OF INTEREST						
Alkalinity, Total as CaCO3 (mg/l)	NA	NA	200	180 - 210	2009	Erosion of natural deposits
Boron (µg/l)	NL=1,000	NA	830	830	2007	Erosion of natural deposits
Calcium (mg/l)	NA	NA	56	50 - 61	2009	Erosion of natural deposits
Hardness as CaCO3 (mg/l)	NA	NA	220	200 - 240	2009	Erosion of natural deposits
Magnesium (mg/l)	NA	NA	20	18 - 21	2009	Erosion of natural deposits
pH (standard units)	NA	NA	7.5	7.4 - 7.5	2009	Erosion of natural deposits
Sodium (mg/l)	NA	NA	24	23 - 24	2009	Erosion of natural deposits
<p>µg/l = parts per billion or micrograms per liter (about 1 drop in 14,000 gallons) mg/l = parts per million or milligrams per liter (about 3 drops in 42 gallons) µmho/cm = micromhos per centimeter pCi/l = picoCurie per liter MCL = Maximum Contaminant Level MCLG = MCL Goal NA = Not Applicable ND = Not Detected NL = Notification Level NTU = Nephelometric Turbidity Units PHG = Public Health Goal < = average is less than the detection limit for purposes of reporting</p>						
LEAD AND COPPER CONCENTRATIONS AT RESIDENTIAL TAPS						
CONSTITUENT (UNITS)	ACTION LEVEL (AL)	PHG	90th PERCENTILE VALUE	SITES EXCEEDING AL/ NUMBER OF SITES	TYPICAL SOURCE OF CONTAMINANT	
Copper (mg/l)	1.3	0.3	0.61	0/10	Corrosion of household plumbing	
Lead (µg/l)	15	0.2	ND	0/10	Corrosion of household plumbing	
<p>Ten residences are tested every three years for lead and copper at-the-tap. The most recent set of samples was collected in 2011. None of the sample results exceeded the regulatory Action Level (AL). The AL is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.</p>						
DISTRIBUTION SYSTEM WATER QUALITY						
CONSTITUENT (UNITS)	MCL (MRDL)	PHG (MRDLG)	AVERAGE LEVEL	RANGE OF DETECTIONS	TYPICAL SOURCE OF CONTAMINANT	
DISINFECTION BYPRODUCTS (a)						
Total Trihalomethanes (µg/l)	80	NA	0.6	0.6	Byproduct of drinking water disinfection	
Haloacetic Acids (µg/l)	60	NA	ND	ND	Byproduct of drinking water disinfection	
DISINFECTANT RESIDUALS (b)						
Chlorine Residual (mg/l)	(4)	(4)	0.97	0.20 - 1.5	Drinking water disinfectant added for treatment	
AESTHETIC QUALITY (c)						
Odor (Units)	3	NA	1	1	Naturally occurring organic materials	
Turbidity (NTU)	5	NA	0.05	ND - 0.48	Soil runoff	
<p>MRDL = Maximum Residual Disinfectant Level MRDLG = Maximum Residual Disinfectant Level Goal</p>						
<p>(a) Samples were collected in the distribution system once every three years, with the most recent samples collected in 2011. (b) Highest running annual average for 2011, and the range of the individual results for samples collected in 2011. (c) Regulated by secondary drinking water standards. Samples collected monthly for color, odor, and turbidity. Color was not detected in 2011.</p>						

**AMARILLO MUTUAL
WATER COMPANY**

**2011 CONSUMER CONFIDENCE
REPORT**



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**AMARILLO MUTUAL WATER
COMPANY
2011
CONSUMER CONFIDENCE REPORT**

INTRODUCTION

Amarillo Mutual Water Company (Amarillo) is committed to keeping you informed about the quality of your drinking water. This report is provided to you annually. It includes information describing where your drinking water comes from, the constituents found in your drinking water and how the water quality compares with the regulatory standards.

For information regarding opportunities to participate in decisions that may affect the quality of your water (board meetings), please contact Ms. Blanche Vizzini at (626) 571-7533.

WHERE DOES MY DRINKING WATER COME FROM?

Amarillo is a small community water system in Los Angeles County serving a population of approximately 3,000 people through 614 service connections. Amarillo maintains two (2) wells located in the City of Rosemead. The wells are operated alternately. The system has no storage facilities; however, water produced from the wells enters a 5,000-gallon hydro-pneumatic tank, with the water injected with hypochlorite solution at the outlet of the hydro-pneumatic tank for disinfection prior to entering the distribution system. Amarillo maintains a standby connection with San Gabriel Valley Water Company.

WHAT ARE WATER QUALITY STANDARDS?

In order to ensure that tap water is safe to drink, the United States Environmental Protection Agency (USEPA) and California Department of Public Health (CDPH) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. CDPH regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water standards established by USEPA and CDPH set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows the following types of water quality standards:

- **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 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.
- **Primary Drinking Water Standard:** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- **Regulatory Action Level (AL):** The concentration of a contaminant, which if exceeded, triggers treatment or other requirements that a water system must follow.
- **Treatment Technique:** A required process intended to reduce the level of a contaminant in drinking water.
- **Notification Level (NL):** An advisory level which, if exceeded, requires the drinking water system to notify the governing body of the local agency in which users of the drinking water reside (i.e. city council, board of directors, and county board of supervisors).

WHAT IS A WATER QUALITY GOAL?

In addition to mandatory water quality standards, USEPA and CDPH have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The chart in this report includes three types of water quality goals:

- **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 USEPA.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** 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.
- **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.

WHAT CONTAMINANTS MAY BE PRESENT IN SOURCES OF DRINKING WATER?

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.
- **Radioactive contaminants**, that can be naturally-occurring or be the result of oil and gas production and mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gasoline stations, urban stormwater runoff, agricultural application and septic systems.

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), visiting USEPA's Office of Ground Water and Drinking Water website at <http://water.epa.gov/drink/index.cfm> or visiting CDPH's website at www.cdph.ca.gov/certlic/drinkingwater.

WHAT IS IN MY DRINKING WATER?

Your drinking water is tested by certified professional water system operators and certified laboratories to ensure its safety. Amarillo routinely tests drinking water from its wells and distribution system pipes for bacterial and chemical contaminants. The chart in this report shows the average and range of concentrations of the constituents tested in your drinking water during year 2011 or from the most recent tests. CDPH allows Amarillo to monitor for some contaminants less than once per year because the concentrations of these contaminants in groundwater do not change frequently. Some of our data, although representative, are more than one year old. The chart lists all the contaminants **detected** in your drinking water that have federal and state drinking water standards. Detected unregulated contaminants of interest are also included.

Although we test for over 100 substances, regulations require us to report only those detected in your water. The first column of the water quality table lists substances detected in your water. The next columns list the MCL and PHG or MCLG, as appropriate. Following are columns that list the average concentration and range of concentrations found in your drinking water. The remaining columns list the most recent test year and the typical source of contaminant.

To review the quality of your drinking water, compare the highest concentration and the MCL. Check for substances greater than the MCL. Exceeding a primary MCL does not usually constitute an immediate health threat. Rather, it requires testing the source water more frequently for a short duration. If test results show that the water continues to exceed the MCL, the water must be treated to remove the substance, or the source must be removed from service.

ARE THERE ANY PRECAUTIONS THE PUBLIC SHOULD CONSIDER?

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).

NITRATE IN TAP WATER

Although nitrate in your drinking water never exceeds the MCL of 45 milligrams per liter (mg/l), nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. 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 for advice from your health care provider.

LEAD IN TAP WATER

If present, elevated levels of lead can cause serious 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. Amarillo 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 USEPA Safe Drinking Water Hotline or at: <http://water.epa.gov/drink/info/lead/index.cfm>

DRINKING WATER SOURCE ASSESSMENT

In accordance with the federal Safe Drinking Water Act, an assessment of the drinking water sources for Amarillo was completed in June 2001. The assessment concluded that Amarillo's sources are considered most vulnerable to the following activities associated with the contaminants detected in the water supply: airports – maintenance/fueling areas, automobile gasoline stations, dry cleaners, known contaminant plumes, metal plating/finishing/fabricating, machine shops, electrical/electronic manufacturing, fleet/truck/bus terminals, photograph processing/printing, illegal activities/unauthorized dumping, pesticide/fertilizer/petroleum storage and transfer areas, fertilizer/pesticide/herbicide application, automobile body shops, automobile repair shops, golf courses, agriculture drainage, storm drain discharge points, hardware/lumber/parts stores, parking lots/malls, medical/dental offices/clinics, veterinary offices/clinics, office buildings/complexes, high density housing, apartments/condominiums, parks, schools, water supply wells, drinking water transfer plants, and food processing. The sources are considered most vulnerable to the following activities not associated with any detected contaminants: transportation corridors-Freeway/State highways, historic railroad right-of-way, and railroads. A copy of the complete assessment is available at Amarillo's office located at 3404 Burton Avenue, Rosemead, California 91770. You may request a summary of the assessment to be sent to you by contacting Ms. Blanche Vizzini at (626) 571-7533.

QUESTIONS?

For more information or questions regarding this report, please contact Ms. Blanche Vizzini at (626) 571-7533.

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