

City of Alamogordo 2016 Water Quality Report

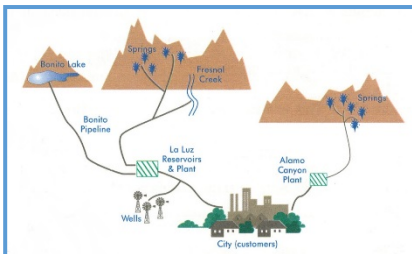
Dear Customer:

This report has been prepared to inform our customers of the quality of their drinking water.

Este reporte incluye información importante sobre el agua para tomar. Si tiene preguntas o discusiones sobre este reporte en español, favor de llamar al TEL. 800-460-6565 par hablar con una persona bilingüe en español.

Last year as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and State of New Mexico drinking water health standards.

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 from their health care providers. EPA/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 (800-426-4791)



The City's water comes from several sources, including springs and stream diversions in the Fresno and La Luz Canyon Systems, springs in the Alamo Canyon System, Bonito Lake and from

wells located both northeast and south of the Alamogordo City Limits.

The Susceptibility Analysis of the Alamogordo Domestic water utility reveals that the utility is well maintained and operated, and the sources of drinking water are generally protected from potential sources of contamination based on an evaluation of the available information. The susceptibility ranking of the entire water system is Moderate. A copy of the entire analysis may be downloaded at: www.ci.alamogordo.nm.us



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 (EPA) Safe Drinking Water Hotline (800-426-4791) The sources of drinking water (both tap 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. 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 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 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. Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to insure 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.

Public input concerning the City of Alamogordo water system may be made at regularly scheduled meetings, held at 6:30 PM on the second and fourth Tuesday of each month, except for November and December when they are held on the first and third Tuesdays at the City Hall located at 1376 E. Ninth Street. You may also contact the City of Alamogordo Water Treatment Division at (575) 437-5991 with any concerns or questions you may have.

Website: www.ci.alamogordo.nm.us

Water Quality Data Table

Important Drinking Water Definitions and Abbreviations

ug/L: Number of micrograms of substance in one liter of water, **pCi/L:** picocuries per liter (a measure of radioactivity), **ND:** Not detected, **MCL:** Maximum Contaminant Level: 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, **MCLG:** Maximum Contaminant Level Goal: 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, **AL:** Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow, **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, **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, **LRAA:** Highest Locational Running Annual Average: Arithmetic average of analytical results for samples taken at a specific monitoring location during the previous four calendar quarters, **ppm:** parts per million, or milligrams per liter (mg/L), **ppb:** parts per billion, or micrograms per liter (ug/L), **Turbidity;** Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Contaminants	Sample Year	MCL	Maximum Detected	Range Low - High	MCLG	Violation	Typical Sources
--------------	-------------	-----	------------------	------------------	------	-----------	-----------------

Disinfectants & Disinfectant By-Products

Chlorine (ppm)	2016	MRDL = 4	1.4	0.8 - 1.4	MRDLG = 4	No	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	2016	60	13	6.8 - 16	N/A	No	By-Product of drinking water chlorination
TTHM's (Total Trihalomethanes) (ppb)	2016	80	43	17 - 50	N/A	No	By-product of drinking water disinfection

Inorganic Contaminants

Nitrate (measured as nitrogen) (ppm)	2016	10	3.4	ND - 3.4	10	No	Runoff from fertilizer use, leaching from septic tanks, erosion of natural deposits
Barium (ppm)	2016	2	0.035	0.024 - 0.035	2	No	Erosion of natural deposits
Fluoride (ppm)	2016	4	0.42	0.12 - 0.42	4	No	Erosion of natural deposits
Selenium (ppb)	2016	50	2.9	ND - 2.9	50	No	Discharge from mines, erosion of natural deposits
Asbestos (MFL)	2014	7	0.2	0.2	7	No	Decay of asbestos cement water mains; erosion of natural deposits

Radioactive Contaminants

Radium (combined 226/228) (pCi/L)	2013	5	0.13	0.13	0	No	Erosion of natural deposits
Gross alpha excluding radon and uranium (pCi/L)	2013	15	0.8	0.8	0	No	Erosion of natural deposits
Uranium (ug/L)	2013	30	4	4	0	No	Erosion of natural deposits

Turbidity

	Sample Year	Limit (Treatment Technique)	Maximum Detected	Violation	Typical Sources
Highest single measurement	2016	1 NTU	0.31	No	Soil runoff
Lowest monthly % meeting limit	2016	0.3 NTU	100 %	No	Soil runoff

Lead and Copper (Regulated at the Customer's Plumbing)

Analyte Name	Sample Year	AL	90th Percentile	# of Samples Exceeding AL	MCLG	Violation	Typical Sources
Lead (action level at consumer taps) (ppb)	2015	15	4.8	1	0	No	Corrosion of household plumbing systems, erosion of natural deposits
Copper (action level at consumer taps) (ppm)	2015	1.3	.53	0	1.3	No	Erosion of natural deposits, Leaching from wood preservatives, corrosion of household plumbing systems

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. Alamogordo Domestic Water 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 or at <http://www.epa.gov/safewater/lead>.