

ARIZONA WATER COMPANY

– 2010 ANNUAL WATER QUALITY REPORT FOR TIERRA GRANDE, ARIZONA, PWSID #11-076 –

This report contains important information about your drinking water. *Este informe contiene información muy importante sobre su agua beber.*

Arizona Water Company provides groundwater to its Tierra Grande customers from wells located in the Tierra Grande area. **The water supplied by Arizona Water Company complies with all state and federal safe drinking water standards.**

The data in the accompanying tables are from water samples that have been analyzed by independent laboratories, which are certified by the Arizona Department of Health Services.

DETECTED WATER QUALITY CONSTITUENTS

| Water Quality Constituent | Units | MCLG | MCL | Range of Levels Detected | Sample Year | Typical Source of Detected Constituent |
|---------------------------|-------|------|-----|--------------------------|-------------|--|
|---------------------------|-------|------|-----|--------------------------|-------------|--|

Inorganics

| | | | | | | |
|-----------------------|-----|----|----|------|------|--|
| Arsenic | ppb | 0 | 10 | 4 | 2006 | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes |
| Barium | ppm | 2 | 2 | 0.05 | 2006 | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits |
| Nitrate (as Nitrogen) | ppm | 10 | 10 | 3 | 2009 | Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits |

Radionuclides

| | | | | | | |
|----------------|-------|---|----|----|------|-----------------------------|
| Alpha Emitters | pCi/L | 0 | 15 | 11 | 2009 | Erosion of natural deposits |
|----------------|-------|---|----|----|------|-----------------------------|

Disinfectants & Disinfection Byproducts

| Water Quality Constituent | Units | MRDLG | MRDL | Average Level Detected | Range of Levels Detected | Sample Year | Typical Source of Detected Constituent |
|---------------------------|-------|-------|------|------------------------|--------------------------|-------------|---|
| Chlorine | ppm | 0 | 4 | 1.1 | 0.7 - 1.5 | 2010 | Water additive used to control microbes |
| Water Quality Constituent | Units | MCLG | MCL | Average Level Detected | Range of Levels Detected | Sample Year | Typical Source of Detected Constituent |
| Haloacetic Acids (five) | ppb | na | 60 | 9 | 9 | 2010 | By-product of drinking water disinfection |
| Total Trihalomethanes | ppb | na | 80 | 3 | 3 | 2010 | By-product of drinking water disinfection |

Unregulated Synthetic Organics, Unregulated Volatile Organics, and Other Unregulated Constituents

| Water Quality Constituent | Units | Average Level Detected | Range of Levels Detected | Sample Year | Typical Source of Detected Constituent |
|---------------------------|-------|------------------------|--------------------------|-------------|--|
| Sodium | ppm | 100 | 100 | 2006 | Unknown |

Constituents Subject to an Action Level

| Water Quality Constituent | Units | MCLG | Action Level | 90 th Percentile of Sample Results | Number of Samples That Exceeded the Action Level | Sample Year | Typical Source of Detected Constituent |
|---------------------------|-------|------|--------------|---|--|-------------|--|
| Copper | ppm | 1.3 | 1.3 | 0.2 | 0 | 2008 | Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives |
| Lead | ppb | 0 | 15 | 7 | 1 | 2008 | Corrosion of household plumbing systems; erosion of natural deposits |

In addition to the water quality constituents listed in the above table, Arizona Water Company's water supplies were tested for the following constituents and such constituents were **not detected**: Total Coliform Bacteria, Antimony, Asbestos, Beryllium, Cadmium, Chromium, Cyanide, Fluoride, Mercury (Inorganic), Nitrite (as Nitrogen), Selenium, Thallium, 2,4-D, 2,4,5-TP (Silvex), Alachlor, Atrazine, Benzo(a)pyrene (PAH), Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl) Adipate, Di(2-ethylhexyl) Phthalate, Dibromochloropropane, Dinoseb, Diquat, Endothall, Endrin, Ethylene Dibromide, Glyphosate, Heptachlor, Hepta-chlor Epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Lindane, Methoxychlor, Oxamyl (Vydate), PCBs (Polychlorinated Biphenyls), Pentachloro-phenol, Picloram, Simazine, Toxaphene, Benzene, Carbon Tetrachloride, (Mono)Chlorobenzene, o-Dichlorobenzene, p-Dichlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Dichloromethane, 1,2-Dichloropropane, Ethylbenzene, Styrene, Tetrachloroethylene, 1,2,4-Trichlorobenzene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Toluene, Vinyl Chloride, Xylenes, Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Aldrin, Bromobenzene, Bromodichloromethane, Bromomethane (Methyl Bromide), Butachlor, Carbaryl, Chlorodibromomethane, Chloroethane, Chloroform, Chloromethane, o-Chlorotoluene, p-Chlorotoluene, Dibromomethane, Dicamba, m-Dichlorobenzene, 1,1-Dichloroethane, 2,2-Dichloropropane, 1,3-Dichloropropane, 1,1-Dichloropropene, 1,3-Dichloropropene, Dieldrin, 3-Hydroxycarbofuran, Methomyl, Metholachlor, Metribuzin, Propachlor, 1,1,1,2-Tetrachloroethane, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, Combined Radium, and Nickel.

In developing new drinking water standards, the EPA has proposed including Radon on the regulated contaminant list with an MCL of 300 to 4000 pCi/L. Arizona Water Company collected a sample at one of its wells in the Tierra Grande water system in 1999 and found the level of Radon to be 160 pCi/L. Additional information on Radon is available from the Safe Drinking Water Hotline (800-426-4791).

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

Note: Data presented are from the most recent testing done in accordance with applicable regulations. Some constituents are monitored less frequently than once a year because either their concentrations do not change frequently or they are not likely to be detected. Therefore, some of the water quality testing data contained herein, although representative, may be more than one year old. If you have questions about this water quality report please contact Regina Lynde, Environmental Compliance Supervisor, Arizona Water Company, P. O. Box 29006, Phoenix, Arizona 85038-9006. Telephone (602) 240-6860 or e-mail mail@azwater.com.

In 2002, the Arizona Department of Environmental Quality (ADEQ) completed a Source Water Assessment of two ground water wells, which are the primary sources of water used by Arizona Water Company's Tierra Grande water system. The Assessment reviewed the adjacent land uses that may pose a potential risk to the wells. These risks include, but are not limited to: gas stations, landfills, dry cleaners, agriculture fields, waste water treatment plants, and mining activities. Once ADEQ identified the adjacent land uses, they were ranked as to their potential to affect the wells. The result of the Assessment was a low risk to the sources of water.

Residents can help protect sources of water by practicing good septic system maintenance, taking hazardous household chemicals to hazardous material collection sites, and limiting pesticide and fertilizer use. The complete Assessment is available for inspection at ADEQ, 1110 West Washington Street, Phoenix, Arizona 85007, between the hours of 8:00 a.m. and 5:00 p.m. Electronic copies are available from ADEQ at dml@azdeq.gov. For more information visit ADEQ's Source Water Assessment and Protection Unit website at: www.azdeq.gov/envirom/water/dw/swap.html.

The EPA requires that Arizona Water Company 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 various 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 Safe Drinking Water Hotline (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. 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 (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.

Constituents that may be present in source water include: (A) Microbials, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. (B) Inorganics, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. (D) Organics, 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. (E) Radionuclides, 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, EPA prescribes regulations which limit the amount of certain constituents in water provided by public water systems. FDA regulations establish limits for constituents in bottled water which must provide the same protection for public health.

DEFINITIONS, ABBREVIATIONS, AND UNIT DESCRIPTIONS:

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|-------|--|
| AL | = Action Level, the concentration of a constituent, which, if exceeded, triggers treatment, or other requirements, which a water system must follow |
| CDC | = The United States Centers For Disease Control |
| EPA | = The United States Environmental Protection Agency |
| FDA | = The United States Food and Drug Administration |
| MCL | = Maximum Contaminant Level, the highest level of a constituent that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. |
| MCLG | = Maximum Contaminant Level Goal, the level of a constituent in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. |
| MRDL | = Maximum Residual Disinfection Level, the highest level of a constituent that is allowed in drinking water |
| MRDLG | = Maximum Residual Disinfection Level Goal, the level of a drinking water disinfectant in drinking water below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of the disinfectants to control microbial contaminants. |
| na | = None adopted |
| nd | = None detected |
| pCi/L | = Picocuries per liter |
| ppb | = Parts per billion, or micrograms per liter (µg/l) |
| ppm | = Parts per million, or milligrams per liter (mg/l) |