

From the Environmental Protection Agency

To ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

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 be from sewage treatment plants, septic systems, agricultural livestock operations, or 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 that 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 by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems; and

Radioactive contaminants that can be naturally-occurring or can be the result of oil and gas production and mining activities.

Special Health Information

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/CDC (Center for Disease Control) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants along with more information about contaminants and potential health effects are available from the Safe Drinking Water Hotline: 800-426-4791.

Nitrate & Arsenic

Quintero's well does not have nitrate concentrations above 5 mg/L. Nitrate at levels above 10 mg/L is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, ask advice from your health care provider.

While your drinking water meets EPA's standard for Arsenic, it does contain low levels. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA 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. Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system and may have an increased risk of getting cancer.

Conservation

Peoria's water resources are critical for our future. The City encourages its citizens to implement water conservation measures in and around their homes. We offer free information booklets and brochures to those interested in learning more about water conservation, Xeriscape, landscape irrigation and indoor water conservation. If you would like to request a literature packet, visit www.conserve.peoriaaz.gov or call 623-773-7286.

The Peoria Utilities Department also offers a variety of free water conservation classes and has information booths at various City events. In addition the City has a rebate program to provide an incentive for citizens to do their part in conserving our precious water resources.

More water quality information and answers to frequently asked questions are available at the department website at www.peoriaaz.gov.

Source Water Assessment

Several years ago, the Arizona Department of Environmental Quality performed a series of source water assessments throughout the state. The assessments reviewed the adjacent land uses that may pose a potential risk to the sources. The Quintero Public Water System was not included in the last round of assessments since it was not an active water system at the time.

The system is designed and operated following practices that protect the sources that are used to provide you with your drinking water.

To Learn	USEPA: www.epa.gov/OGWDW
More About	ADEQ: www.azdeq.gov
Water Quality...	Maricopa County: www.maricopa.gov/envsvc



City of Peoria
Utilities Department
8401 W. Monroe Street
Peoria, AZ 85345

2008 Water Report

Postal Customer

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City of Peoria - Quintero Water System

WATER REPORT 2008

Provide reliable, quality water services to Peoria customers today and tomorrow.

Si usted quiere esta informacion en espanol por favor visita www.peoriaaz.gov/utilities/ o llama al 623-773-7286.



Director's Corner:

This annual Consumer Confidence Report (CCR) provides information on water quality in the Quintero area for calendar year 2008. The City of Peoria Utilities Department has developed this report to provide information regarding where your water comes from, what it contains and how it compares to state and federal standards.

The City is committed to providing you with safe water services every time you turn on the tap. During the past year you have received invitations to participate in the City's Point of Use program to address the excessive Total Trihalomethane levels in the system. While many have signed up, there are a few residences remaining without the devices. Participation in the program ensures your drinking water consistently meets all state and federal water quality standards.

Please feel free to visit the City's website at www.peoriaaz.gov for additional information regarding a variety of water topics including frequently asked questions, information on water conservation classes and the rebates offered by the City to encourage water conservation.

Sincerely,

Stephen Bontrager, P.E., DEE
Utilities Director
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TREATED, TESTED AND SAFE: EXCEPTIONAL SERVICE IN EVERY DROP

The City of Peoria Utilities Department is committed to providing a safe, healthy, assured water supply to the community at a reasonable cost. City of Peoria drinking water is "treated, tested, and safe." This is a phrase commonly used, but what does it mean to you as a consumer?

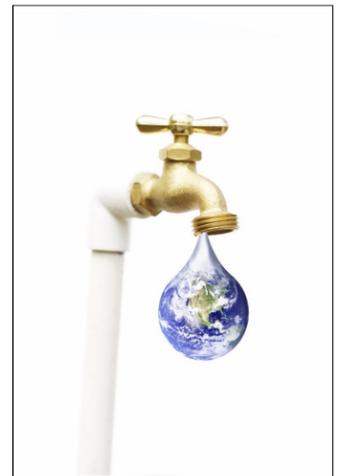
Treated - Since the city's drinking water originates from groundwater and surface water, two different treatment methods are used. Water from wells is chlorinated prior to delivery. Surface water undergoes extensive treatment at either the Pyramid Peak or Greenway Water Treatment Plants to meet drinking water standards. These facilities use conventional and chemical treatment including chlorine dioxide or ozone to mitigate taste and odor, and minimize disinfection by-products.

Tested - Over 200 tests are performed by plant operators each day, and several parameters are monitored continuously using state-of-the-

art equipment, which notifies staff members of any deviations from acceptable conditions. Once the water leaves the water supply well or water treatment plant, water quality is measured within the distribution system to ensure drinking water standards are maintained.

Safe - Drinking water safety is the primary concern of the Utilities Department. Safety is achieved by coordinating technology and qualified staff members to monitor production systems, sample the distribution system, and evaluate opportunities to continually enhance the program while minimizing cost to our customers.

Water is treated and tested at groundwater wells and treatment plants and then monitored to ensure it remains safe on the way to your tap. Numerous chemical and biological analyses are conducted daily. A wide variety of compounds are monitored and tested for in your drinking water, in accordance with



federal and state laws and local water quality guidelines.

The Peoria Utilities Department supports a committee of the AZ Water Association called Tap Into Quality (TIQ). TIQ provides educational materials to schools and the public on tap water safety and quality. For

more information on Tap Into Quality, please visit tapintoquality.com.



WHERE YOUR WATER COMES FROM

Peoria has invested in four distinct water supplies. Drinking water, also called potable water, comes from the Salt River Project (SRP), the Central Arizona Project (CAP), and groundwater. This redundancy in our drinking water supply helps ensure the availability of water. When one drinking water supply is experienc-

ing below-normal water levels, the city has two other supplies it can rely upon to provide drinking water to our customers. Reclaimed water, a fourth water supply, offsets some uses where drinking quality water is not needed, such as for irrigation and decorative water features.

In 2008, SRP delivered approximately 36% of Peoria's

water supply from its reservoirs on the Salt and Verde Rivers through the Arizona Canal. Approximately 30% of Peoria's water was supplied from the Colorado River via the 336-mile long CAP canal, which starts in Lake Havasu. Nearly 28% of the city's water supply came from groundwater. This groundwater use is offset by the re-

charge of renewable supplies of water (e.g. SRP and CAP). The remaining 6% was supplied as reclaimed water used only for irrigation of large landscaped areas and filling of decorative water features.

The Quintero area is served 100% by surface water from the CAP canal.



The data presented provides a detailed microbiological and chemical analysis of Peoria's water supply for calendar year 2008 in its Quintero water system (PWS 04-07-513).

Aesthetics - Secondary Drinking Water Guidelines

Analyte	Units	Surface Water Concentrations		EPA Limit MCL	EPA Limit MCLG	Sample Date	Possible Sources
		Range	Average				
Alkalinity	mg/L	87-155	128	NA	NA	2008	Naturally present.
pH	pH Units	6.9-8.8	8.1	NA	NA	2008	NA
Sodium	mg/L	100*	100*	NA	NA	2008	Naturally present.
Sulfate	mg/L	260*	260*	NA	NA	2008	Erosion of natural deposits.

Inorganics

Arsenic	µg/L	2-2.4	2.6	10	0	2008	Erosion of natural deposits.
Barium	mg/L	0.15*	0.15*	2	2	2008	Erosion of natural deposits.
Fluoride	mg/L	0.29-0.36	0.36	4	NA	2008	Erosion of natural deposits.
Nitrate	mg/L	ND-0.47	0.47	10	10	2008	Fertilizer runoff, erosion of natural deposits.

Organics

Xylenes	mg/L	ND-0.0008	0.0008	10	10	2008	Discharge from petroleum factories; Discharge from chemical factories
Xylenes	Some people who drink water containing xylenes in excess of the MCL over many years could experience damage to their nervous system.						

Radiochemicals

Combined Radium	pCi/L	ND	ND	5	0		Erosion of natural deposits.
Radium-226	pCi/L	ND	ND	NA	NA		Erosion of natural deposits.
Gross Alpha	pCi/L	ND	ND	15	0		Erosion of natural deposits.
Uranium	µg/L	4.5-4.9	4.7	30	0		Erosion of natural deposits.
Radon	pCi/L	ND	ND	NA	NA		Erosion of natural deposits.

*Only one sample collected, as required.

Radon is a radioactive gas that you cannot see, taste, or smell. It is found throughout the United States. 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. For additional information, call your state radon program or call EPA's Radon Hotline (800-SOS-RADON).

Definitions and Abbreviations

AL: Action level: The concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

MCL: Maximum Contaminant Level: The highest level of a contaminant 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 contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

µg/L: micrograms per liter: a unit of measurement equal to ppb (parts per billion)

mg/L: milligrams per liter: a unit of measurement equal to ppm (parts per million)

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.

NA: not applicable

ND: none detected

pCi/L: pico-Curies per liter: a measure of radioactivity

Lead and Copper

Analyte	Units	90th Percentile Reported	EPA Action Level (AL)	EPA Limit MCLG	Sample Date	Number of sites above AL	Possible Sources
Copper	mg/L	0.663	1.3	1.3	2008	Zero	Erosion of natural deposits, home plumbing systems.
Lead	µg/L	11	15	0	2008	2	Erosion of natural deposits, home 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.

The City of Peoria 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 drinking 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>.

Disinfection By-Products

Analyte	Units	Water System Concentrations		EPA Limit MCL	EPA Limit MCLG	Sample Date	Possible Sources
		Range	Highest Average				
Total Organic Carbon % Removal	%	16-37%	36%	TT	NA	Twice monthly	Naturally present in environment.
Total Trihalomethanes	µg/L	0.8 - 5.4	2.7	80	NA	Quarterly	By-product of drinking water chlorination.
Total Haloacetic Acids	µg/L	3.5 - 20	14.1	60	NA	Quarterly	By-product of drinking water chlorination.
Total Trihalomethanes	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.						

Other Analysis

Analyte	Units	Water System Concentrations	EPA Limit MCL	EPA MCLG	Sample Date	EPA Limit MRDL	Possible Sources
		Level Found					
Total Coliforms	P/A	0	one positive monthly sample*	0	2008	NA	Naturally present.
Chlorine Residual	mg/L	0—1.39	4	NA	2008	4	Water additive used to control microbes.

Turbidity

Surface Water Treatment Plant	Analyte	Units	Level Found	MCL	MCLG	Possible Sources
Quintero	Turbidity	NTU	0.98	TT=0.3 NTU	0	Soil Runoff
			99.8%	TT= % of samples <0.3 NTU	0	Soil Runoff

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.