



# GLEN HELEN REGIONAL PARK 2010 CONSUMER CONFIDENCE REPORT

## GENERAL SYSTEM INFORMATION

### GHRP

Routinely monitors for constituents in the Park's drinking water according to Federal and State laws. The tables show the results of the Park's monitoring for the period of January 1<sup>st</sup> through December 31<sup>st</sup>, 2010

Questions about this report or concerning the water system?

Contact Steve Samaras, Operations Manager at:

(760) 955-9885 or  
(800) 554-0565

### Office Hours:

Monday through  
Friday  
8:00 am – 5:00 pm  
Closed on Holidays

### MUY

### IMPORTANTE !

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

Glen Helen Regional Park's water system is operated by the Special Districts Department Water/Sanitation Division (Division). This park is located in the Devore region of San Bernardino County.

The water system consists of 5 active wells, 5 reservoirs with a combined capacity of 2,110,000 gallons and approximately 3 miles of water line

Visit Special Districts website for additional information at  
<http://www.specialdistricts.org/2/>

Management and staff work as a team to ensure that the highest quality water is provided to our customers. A diligent regimen of testing and analysis for bacteriological, chemical, and radiological contaminants, along with physical qualities of the water is conducted throughout the year to ensure the highest water quality.

It is important to keep customers informed about the quality of water delivered over the past year. This year's annual water quality report, also known as a Consumer Confidence Report (CCR), contains information about the contaminants detected in 2010. The Division's goal is to provide a safe and dependable supply of drinking water.

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 the 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 at (1-800-426-4791) or at their web site: <http://www.epa.gov/safewater/>

The subsequent tables provide many terms and abbreviations that customers may not be familiar with. To understand these terms, the district has provided the following definitions:

*Non-Detects (ND)* - laboratory analysis indicates that the constituent is not present or not tested.

*MG* – Million gallons

*Parts per million (ppm)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb)* - one part per billion corresponds to one minute in 2,000 years.

*Parts per trillion (ppt)* - one part per trillion corresponds to one minute in 2,000,000 years.

*Parts per quadrillion (ppq)* - one part per quadrillion corresponds to one minute in 2,000,000,000 years.

*Picocuries per liter (pCi/L)* - Picocuries per liter is a measure of the radioactivity in water.

*Millirems per year (mrem/yr)* - measure of radiation absorbed by the body.

*Million Fibers per Liter (MFL)* - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

*Maximum Residual Disinfectant Level (MRDL)* – The level of a disinfectant added for water treatment that may not be exceeded at the customer's tap.

*Maximum Residual Disinfectant Level Goal (MRDLG)* – The level of a disinfectant added for water treatment below which there is no known or expected health risk. MRDLGs are set by the U.S. Environmental Protection Agency.

*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 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 the U. S. Environmental Protection Agency.

*Nephelometric Turbidity Unit (NTU)* - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

*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.

*Primary Drinking Water Standard (PDWS)* – MCLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

*Regulatory Action Level (AL)* – The concentrations of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

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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, which 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 byproducts 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.

# CSA 70 GHRP - PRIMARY STANDARDS

## TEST RESULTS :

Data is obtained from the most recent sampling and may be from previous years.

### LEAD and COPPER TEST 2009

Action level for : Lead = .015 ppm    Copper = 1.3 ppm

90th percentile (10)    Lead = .006    Copper = .61

no violation of the action level for Lead and Copper

Number of sites exceeding AL = 0

### Microbiological Contaminants

Contaminant	Violation Y / N	Average Level Detected	Range of Detection	Unit of Measure	MCL	PHG (MCLG)	Likely Source of Contamination
Total Coliform bacteria	N	0		P/A			Naturally present in the environment

### Radioactive Contaminants

Contaminant	Violation Y / N	Average Level Detected	Range of Detection	Unit of Measure	MCL	PHG (MCLG)	Likely Source of Contamination
Uranium	N	ND		pCi/L	20	0.43	Erosion of natural deposits
Radium 228	N	ND		pCi/L	5	0.019	Erosion of natural deposits
Gross Alpha	N	2.6	3. - 8.	pCi/L	15	0	Erosion of natural deposits

## Inorganic Contaminants

Contaminant	Violation Y / N	Average Level Detected	Range of Detection	Unit of Measure	MCL	PHG (MCLG)	Likely Source of Contamination
Nitrate	N	10.2	9.6 - 20	ppm	45	45	Runoff and leaching from Fertilizer use; leaching from septic tanks.Sewage; erosion of natural deposits.
Nitrate + Nitrite as (N)	N	2533	2200 - 2700	ppm	10,000	NA	Runoff and leaching from ferilizer use;leaching from septic tanks;Sewage;erosion of natural deposits
Fluoride	N	0.78	.67 - .82	ppm	2	1	Erosion of natural deposits; water additive which promotes strong teeth;discharge from fertilizer and aluminum factories
Perchlorate	N	0.78	0 - 5.3	ppb	6	6	Perchlorate is an inorganic chemical used in solid rocket propellant,fireworks,explosives, flares,matches,and a variety of industries.It usually gets into drinking water as a results of environmental contamination from historic aerospace or other industrial operations that used or use,store,or dispose of perchlorate and its salts.

## Disinfectant Byproducts Monitoring

Contaminant	Violation Y / N	Average Level Detected	Range of Detection	Unit of Measure	MCL	PHG (MCLG)	Likely Source of Contamination
Total Trihalomethanes (THM/TTM)	N	0.6	0 - 1.2	ppb	80	NA	Byproducts of drinking water chlorination

## CSA 70 GHRP - SECONDARY STANDARDS

Data is obtained from the most recent sampling and may be from previous years.

Contaminant	Violation Y / N	Average Level Detected	Range of Detection	Unit of Measure	MCL	PHG (MCLG)	Likely Source of Contamination
Odor - Threshhold	N	1	1 to 1	UNITS	3		Naturally - occuring organic material
Turbidity	N	3.06	.5-8.1	Units	5		Soil runoff
Total Dissolved Solids	N	305	240-370	ppm	1,000		Runoff/leaching from natural deposits
Specific Conductance	N	550 *		umhos	16,000		Substance that form ions when in water; seawater influence

## Additional Constituents Found

Constituent	Average	Range	Unit of Measure
Alkalinity	190*		ppm
Calcium	59*		ppm

Constituent	Average	Range	Unit of Measure
Vanadium	2.6*		ppm
PH	7.1*		

\* Denotes only a single sample from the testing period

## SHOULD CUSTOMERS BE CONCERNED?

MCL's are set at very stringent levels. To understand the risk of possible health effects described for regulated contaminants, customers should know that a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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 microbiological contaminants are available from the Safe drinking water hotline (1-800-426-4791).

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. Special Districts Department, Water and Sanitation Division 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 Water Hotline or at <http://www.epa.gov/safewater/lead>.

### **Projects completed in 2010**

***A SCADA sytem was installed at all water sites for remote viewing and control of operational functions.***

***Well number four was rehabilitated and put back into service. Well five received a new water lube system.***

### **Projects planned in 2011**


***Increasing well efficcency for well # 3***

***Repair the pump motor at well #1A***

***Add a drain line to the pump house at well #1A***

# Water Saving Hints

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	<b>Have your toilet tanks checked for leaks.</b>	Place a few drops of blue food coloring in the toilet tank. If coloring is seen in the toilet bowl without flushing, a wasteful leak needs to be repaired. A leaking toilet can waste up to 21,000 gallons of water per year.
	<b>Install low-flow shower heads.</b>	Low-flow shower heads can help you save up to 8 gallons of water for each minute of shower time. Also, you will use less hot water which saves energy.
	<b>Lawns and shrubs should be watered only when they really need it.</b> <b>Water at the right time of day.</b>	Check lawns and shrubs to see if they need water. A lawn that springs back after being stepped on doesn't need water. Watering may not be necessary in the winter.  In summer water only during the cooler parts of the day. The sun can cause most of the water to evaporate before it is absorbed into the soil.

The Water/Sanitation Division of the Special Districts Department would like to remind customers to conserve water during Southern California Edison (SCE) rolling blackouts, and any other power outages in your area, as most production and transmission facilities may not have power for water production and delivery. SCE emergency contact number: call 1-800-611-1911.