If You Have Questions – Contact Us

For information about your water quality or to find out about upcoming opportunities to participate in public meetings, please contact our 24-hour Customer Service Center at 1-800-999-4033. Visit us online at www.gswater.com or email us at customerservice@gswater.com.

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

Golden State Water Company
A Subsidiary of American States Water Company

3005 Gold Canal Dr.
Rancho Cordova, CA 95670

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2012 Water Quality Report for year 2011

Cordova Water System

Golden State Water Company
A Subsidiary of American States Water Company

Source Water Assessment

GSWC conducted a source water assessment in 2002 for the Folsom South Canal and each groundwater well serving the customers of its Cordova System.

Groundwater sources in this system are considered most vulnerable to the following activities not associated with detected contaminants: active and historic gas stations, confirmed leaking underground storage tanks, dry cleaners, historic mining operations, military installations, and plastics/synthetics producers.

Groundwater sources in this system are considered most vulnerable to the following activities associated with contaminants that have been detected in the water supply: known contaminant plumes.

The Folsom South Canal is considered most vulnerable to the following activities associated with contaminants not detected in the water supply: historic mining operations.

The Folsom South Canal is considered most vulnerable to the following activities associated with contaminants detected in the water supply: sewer collection system and Lake Natoma recreational area.

A copy of the assessment may be viewed at:

CDPH Sacramento District Office
1616 Capitol Avenue, 2nd Floor
Sacramento, CA 95899-7377

or

GSWC Rancho Cordova Office
3005 Gold Canal Dr.
Rancho Cordova, CA 95670

You may request a summary of the assessment be sent to you by contacting:

CDPH Sacramento District Office at 1-916-449-5600

For more details contact:

Kathy Lawson at 1-800-999-4033

Cross Connection Control Program

GSWC's Cross Connection Control Program provides a level of certainty that the water in the company's distribution system is protected from possible backflow of contaminated water from commercial or industrial customers' premises. For additional information, visit www.gswater.com/water_quality.html.

Providing Quality Drinking Water in California Since 1929

Golden State Water Company (GSWC) is pleased to present this Annual Water Quality Report, which contains important information about the quality of your drinking water for calendar year 2011.

Bringing you clean drinking water is serious business. We strictly follow the guidelines of the U.S. Environmental Protection Agency (USEPA), the California Department of Public Health, and the California Public Utilities Commission, sampling more than 230 regulated and unregulated elements in our water systems. GSWC's industry professionals regularly take samples to monitor quality at the water source and throughout the distribution system. We spent more than $550,000 companywide last year on laboratory tests to ensure that we are meeting regulatory standards and providing high-quality water.

If any drinking water standard is compromised, we are required to take immediate action, notify you quickly, and restore normal service. **Last year, the water we provided you met all USEPA and California drinking water standards.**

We pride ourselves on getting the job done right. For more than 80 years, we have successfully built relationships with the industry's best and our team of experts is equipped to provide customers with the most efficient and effective service possible. We are constantly improving our water production and delivery systems, and maintaining wells, pumps and pipelines. Our philosophy is to invest in robust preventive maintenance programs so that our water infrastructure can provide you with high-quality water, 24 hours per day, 7 days per week.

You, our customer, are our number one priority. Our around-the-clock Customer Service Center has representatives to answer your water questions and address your concerns day or night. Our website, www.gswater.com, contains a wide range of topics that include water quality, conservation rebates and information about your local customer service area, and water-use efficiency.

With regard to water-use efficiency, conservation remains one of the best and least-cost ways to maintain a reliable source of high-quality water now and for future generations.

On behalf of the men and women of Golden State Water Company who serve you, thank you for providing us the opportunity to be your water provider. We invite you to call our 24-hour Customer Service Center with any questions or feedback about this report at 1-800-999-4033.

Sincerely,

Robert Sprowls
President and Chief Executive Officer
Golden State Water Company

Paul Schubert
Northern District Manager
Golden State Water Company

About the Company

Golden State Water Company, a subsidiary of American States Water Company (AWR), provides water service to approximately 1 out of every 36 Californians located within 75 communities throughout 10 counties in Northern, Coastal and Southern California (approximately 256,000 customers). The Company also distributes electricity to more than 23,000 customers in the Big Bear recreational area of California. AWR's contracted services subsidiary, American States Utility Services, Inc., provides operations, maintenance and construction management services for water and wastewater systems located on military bases throughout the country.

Where Does My Water Come From?

Water delivered to customers in the Cordova System is a blend of groundwater, pumped from the Sacramento Valley Groundwater Basin, and surface water treated at Golden State Water Company's Coloma Water Treatment Plant. Groundwater is pumped from the basin through wells owned by Golden State Water Company. The surface water is delivered from the American River via the Folsom South Canal from Lake Natoma.

Risk to Tap and Bottled Water

Drinking water, including bottled water, may reasonably be expected to contain 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 at 1-800-426-4791.

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 layers in the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal or human activity.

To be certain that tap water is safe to drink, the USEPA and the CDPH prescribe regulations limiting the amount of contaminants in water provided by public water systems. United States Food and Drug Administration (USFDA) and CDPH regulations also provide the same public health protection by establishing limits for contaminants in bottled water.

Contaminants in Drinking Water Sources May 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, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and 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, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems
- Radioactive contaminants that can be naturally occurring or be the result of oil and gas production and mining activities

For People with Sensitive Immune Systems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as those individuals with cancer undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS or other immune system disorders, some elderly populations, and infants, can be particularly at risk from infections. These people should seek advice from their health care providers.

The U.S. Environmental Protection Agency/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available by calling the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

The Water Cycle

The water cycle is a continuous process by which water circulates throughout the Earth and atmosphere.

Laboratory Analyses

Through the years, we have taken thousands of water samples to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants in your drinking water. The table we provide shows only detected contaminants in the water.

Even though all the substances listed here are under the Maximum Contaminant Level (MCL), we feel it is important that you know exactly what was detected and how much of these substances were present in the water. Compliance (unless otherwise noted) is based on the average level of concentration below the MCL. The state allows us to monitor for some contaminants less than once per year because the concentrations do not change frequently. Some of our data, though representative, is more than a year old.

Lead — 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. GSWC 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 two 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 about lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at http://www.epa.gov/safewater/lead.

Odor — The secondary MCL for odor is set for aesthetic reasons and there is no health concern associated with the odor levels in this water system.

Turbidity — Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of surface water filtration.

Measurements

Water is sampled and tested consistently throughout the year to ensure the best possible quality. Contaminants are measured in:

- Parts per million (**ppm**) or milligrams per liter (**mg/L**)
- Parts per billion (**ppb**) or micrograms per liter (**µg/L**)
- Parts per trillion (**ppt**) or nanograms per liter (**ng/L**)
- Grains per gallon (**grains/gal**) – A measurement of water hardness often used for sizing household water softeners; one grain per gallon is equal to 17.1 mg/L of hardness
- MicroSiemens per centimeter (**µS/cm**) – A measurement of a solution's ability to conduct electricity
- Nephelometric Turbidity Units (**NTU**) – A measurement of the clarity of water. Turbidity in excess of 5 NTU is noticeable to the average person
- PicoCuries per liter (**pCi/L**) – A measurement of radioactivity in water

If this is difficult to imagine, think about these comparisons:

Parts per million:
1 drop in 14 gallons
1 second in 12 days
1 inch in 16 miles

Parts per billion:
1 drop in 14,000 gallons
1 second in 32 years
1 inch in 16,000 miles

Parts per trillion:
1 second in 32,000 years
1 inch in 16 million miles
10 drops in enough water to fill the Rose Bowl

Point...Click...Conserve!

Visit www.gswater.com to learn how to:

- Become a water conservation expert
- Learn more about available conservation rebates and programs
- Get the latest Water Quality Report for your area
- Understand your water bill and get payment options

For additional information, please contact our 24-hour Customer Service Center at **1-800-999-4033** or email us at **customerservice@gswater.com**

Glossary of Terms

Maximum Contaminant Level (MCL)
The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the public health goals and maximum contaminant level goals as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

California Notification Level (NL)
Non-regulatory, health-based advisory levels established by the California Department of Public Health (CDPH) for contaminants in drinking water for which an MCL has not been established.

Maximum Contaminant Level Goal (MCLG)
The level of contaminant in drinking water below which there is no known or expected risk to health. Maximum contaminant level goals are set by the U.S. Environmental Protection Agency (USEPA).

Maximum Residual Disinfectant Level (MRDL)
The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

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.

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

Public Health Goal (PHG)
The level of a contaminant in drinking water below which there is no known or expected risk to health. Public health goals are set by the California Environmental Protection Agency (CalEPA).

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 (TT)
A required process intended to reduce the level of a contaminant in drinking water.

Cordova Water System – Source Water Quality

Primary Standards - Health Based (units)	Primary MCL	PHG (MCLG)	Range of Detection	Average Level	MCL Violation?	Most Recent Sampling Date	Typical Source of Constituent
Turbidity							
Highest single measurement of the treated surface water (NTU)	TT = 1.0	n/a	n/a	0.83	No	2011	Soil runoff
Lowest percent of all monthly readings less than 0.3 NTU (%)	TT = 95	n/a	n/a	99%	No	2011	Soil runoff
Inorganic Constituents							
Arsenic (ug/L)	10	0.004	ND-3	ND	No	2011	Erosion of natural deposits; runoff from orchards, glass and electronics production wastes
Barium (mg/L)	1	2	ND-0.13	ND	No	2011	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride (mg/L)	2.0	1	ND-0.29	ND	No	2011	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate [as NO3] (mg/L)	45	45	ND-19	5	No	2011	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Volatile Organic Constituents							
Tetrachloroethylene [PCE] (ug/L)	5	0.06	ND-0.8	ND	No	2011	Discharge from factories, dry cleaners, and auto shops (metal degreaser)
Trichloroethylene [TCE] (ug/L)	5	1.7	ND-1.5	ND	No	2011	Discharge from metal degreasing sites and other factories
Radioactive Constituents							
Gross Alpha Activity (pCi/L)	15	(0)	ND-3.4	ND	No	2006	Erosion of natural deposits
Combined Radium (pCi/L)	5(a)	(0)	ND-2.4	ND	No	2006	Erosion of natural deposits
Secondary Standards - Aesthetic (units)	**Secondary MCL**	**PHG (MCLG)**	**Range of Detection**	**Average Level**	**MCL Violation?**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Color (units)	15	n/a	ND-7.5	2.5	No	2011	Naturally occurring organic materials
Chloride (mg/L)	500	n/a	2-16	6	No	2011	Runoff/leaching from natural deposits; seawater influence
Manganese (ug/L)	50	n/a	ND-28	ND	No	2011	Leaching from natural deposits
Odor---Threshold (units)	3	n/a	ND-5	ND	No	2011	Naturally occurring organic materials
Specific Conductance (uS/cm)	1600	n/a	62-470	210	No	2011	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	500	n/a	2-20	8	No	2011	Runoff/leaching from natural deposits; industrial wastes
Turbidity (units)	5	n/a	ND-0.5	ND	No	2011	Soil runoff
Total Dissolved Solids (mg/L)	1000	n/a	31-320	160	No	2011	Runoff/leaching from natural deposits
Other Parameters (units)	**Notification Level**	**PHG (MCLG)**	**Range of Detection**	**Average Level**	**MCL Violation?**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Alkalinity (mg/L)	n/a	n/a	15-200	80	n/a	2011	
Calcium (mg/L)	n/a	n/a	6-49	19	n/a	2011	
Hardness [as CaCO3] (mg/L)	n/a	n/a	25-210	90	n/a	2011	The sum of polyvalent cations present in the water, generally magnesium and calcium; the cations are usually naturally occurring
Hardness [as CaCO3] (grains/gal)	n/a	n/a	1.5-12.3	5.0	n/a	2011	
Magnesium (mg/L)	n/a	n/a	3-22	8	n/a	2011	
pH (pH units)	n/a	n/a	6.5-8.0	7.1	n/a	2011	
Potassium (mg/L)	n/a	n/a	0.6-4.0	2.5	n/a	2011	
Sodium (mg/L)	n/a	n/a	3-18	9	n/a	2011	Refers to the salt present in the water and is generally naturally occurring

Cordova Water System – Distribution Water Quality

Disinfection Byproducts and Disinfectant Residuals (units)	Primary MCL (MRDL)	PHG (MRDLG)	Range of Detection	Highest 4-Quarterly Average	MCL Violation?	Most Recent Sampling Date	Typical Source of Constituent
Chlorine [as Cl_2] (mg/L)	(4.0)	(4)	0.58-1.4	1.0	No	2011	Drinking water disinfectant added for treatment
HAA5 [Total of Five Haloacetic Acids] (ug/L)	60	n/a	ND-16	6	No	2011	Byproduct of drinking water disinfection
TTHMs [Total of Four Trihalomethanes] (ug/L)	80	n/a	ND-23	10	No	2011	Byproduct of drinking water disinfection
Inorganic Constituents (units)	**Action Level**	**PHG (MCLG)**	**Sample Data**	**90th % Level**	**Exceedance?**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Copper (mg/L)	1.3	0.3	None of the 32 samples collected exceeded the Action Level.	0.28	No	2011	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

[a] MCL is based on combined Radium-226 + Radium-228.
ND = Not Detected
CaCO3 = Calcium Carbonate