



Saticoy Country Club

Water Quality Confidence Report 2010

The Saticoy Country Club and the City of Ventura welcome this opportunity to provide you with water quality information.

Our goal is to provide safe and reliable water that consistently meets state and federal drinking water standards.

This Water Consumer Confidence Report was prepared in compliance with regulatory requirements.

CITY OF
VENTURA
Environmental & Water Resources
www.cityofventura.net



SATICOY COUNTRY CLUB

2010 Consumer Confidence Report Saticoy Country Club Water System

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2009, or most recent time period required.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien. Para más información o obtener copias del informe de agua en español llame 652-4500.

Water System Description

The Saticoy Country Club water system supplies drinking and irrigation water from two groundwater wells. The wells pump from the Fox Canyon aquifer at a depth between 650 to 1,000 feet and are located on the golf course adjacent to residential structures. Production from the wells is subject to the ordinances of the Fox Canyon Groundwater Management Agency. The City of Ventura owns one-third and the Saticoy Country Club (SCC) owns two-thirds of the water system and by terms of their agreement, the City provides all water services and is reimbursed two-thirds of the annual expenses by the SCC. The California Department of Public Health updated the Water Supply Permit dated September 26, 2008.

In 2009, both wells performed at expected levels for their age, condition and operational capacity. Well No.1 (drilled in 1963) and Well No. 2 (drilled in 1990) pump at a rate of 285 and 350 gallons per minute, respectively. As the wells cannot run at the same time due to separate electrical systems, Well No. 2 is the predominate source and runs daily for 16 to 20 hours to meet system demands. Well No.1 is a winter source and can meet summer demands for four or five days depending on the golf course irrigation requirements. During 2008 and 2009, 129,040,000 and 131,950,000 gallons were pumped, respectively. July 2009 was the month of maximum production at 19,825,000 gallons.

The service area population of the Saticoy Country Club water system is estimated at 150 reaching about 200 during the summer. The water system includes two 500,000-gallon water storage tanks and a booster station that pumps water from the lower tank to the upper tank. Water flows by gravity from the elevated storage tanks, and is delivered through approximately four miles of distribution piping measuring 6 to 12 inches in diameter. The piping is made of asbestos-cement, PVC, or high-density polyethylene pipe. There are 94 active water service connections of which 67 connections are currently metered for residential use, one is commercial, two are for irrigation, 25 are for fire lines and three are inactive. There are 31 backflow prevention devices.

The well water is treated with liquid chlorine for bacteriological disinfection. The City operates a full-scale, state-certified laboratory to test the quality of the water. State-certified operators monitor and maintain the water system to ensure that the water is properly treated and distributed. The City is required to maintain records of complaints regarding water quality and outages. In 2009, there were no water quality complaints or service leaks.

New Well

As joint owners, the City and the Saticoy Country Club work collaboratively to establish capital improvement and preventative maintenance programs for the water system. A condition assessment of the water system was completed in 2007. In 2009, it was agreed that Well No. 1 needed replacement because its production capacity was failing to meet water demand. A replacement well, Well No. 3, will be sited in close proximity to Well No. 2 and is in preliminary design phase with construction expected in 2011. The new well will greatly improve future water supply reliability to SCC customers.

Drinking Water Quality and Source Assessment Information

The water from the wells meets primary health related drinking water standards and regulations for groundwater sources. Manganese, sulfate, total dissolved levels (TDS) and specific conductance are at times above the aesthetic Secondary Drinking Water Standards (SDWS). Improvement to aesthetic water quality by reducing manganese with media filtration, or reducing sulfate, nitrate and TDS with membrane filtration are commonly used treatment methods.

A Drinking Water Source Assessment study of the SCC wells was completed in January 2002. The sources are considered vulnerable to some adjacent activities in the area. Agricultural drainage, septic tank systems, the golf course, mountainous area, irrigated crops, fertilizer and pesticide application are considered the most probable sources of contaminates to the water supply. Potential contaminants of health concern detected in the water supply include nitrate and radon, and of aesthetic concern include, manganese, iron, sulfate and TDS. Sulfate and nitrate are common contaminants associated with fertilizers. TDS, sulfate, iron and manganese are common contaminants associated with deep groundwater in Ventura County. Additional information about these contaminants is found in this report on the following pages.

Public Meetings and Contact Information

The public is invited to express their opinions at the Saticoy Country Club Board of Directors meetings held regularly on the last Tuesday of each month at 4450 N. Club House Drive in Somis or the Ventura City Council meetings held most Monday evenings in the Council Chambers, Ventura City Hall, 501 Poli Street. Please visit the City Council link at www.cityofventura.net for a complete schedule. The Saticoy Country Club General Manager can be contacted at (805) 485-4956 and the City of Ventura Water Utility Manager at (805) 652-4500.

TERMS USED IN THIS REPORT

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 (USEPA).

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.

Maximum Residual Disinfectant Level (MRDL): 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.

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 Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

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

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

Variations and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

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.

Contaminants that may be present in source water include:

- *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, 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 by-products 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.

In order to ensure that tap water is safe to drink, the USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, and 5 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA					
Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 1	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	(In the year) 0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER						
Lead and Copper (complete if lead or copper detected in the last sample set)	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)	5	2.6	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppb)	5	350	0	1300	170	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	2009	132	122-146	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	2009	573	543-627	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

**Any violation of an MC or AL is asterisked. Additional information regarding the violation is provided later in this report.*

TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Turbidity (NTU)	2009	0.52	0.1-4.5	TT	NA	Soil Runoff
Chlorine Residual (ppm)	2009	1.4	0.4-2.0	4	4	Disinfectant added to treat the groundwater
Fluoride (ppm)	2209	0.36	0.28-0.45	2	1 (NA)	Erosion of natural deposits; discharge from fertilizer
Nitrate (ppm)	2009	8.9	5.3-29.2	45	45 (NA)	Runoff and leaching from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Total Trihalomethanes (ppb)	2009	26	18-32	80	NA (NA)	By-product of drinking water chlorination
Gross Alpha Particle Activity (pCi/L)	2007	6.4	3-10	15	NA (0)	Erosion of natural deposits
Radium 226 (pCi/L)	2007	0.14	0.11-0.17	5	NA (0)	Erosion of natural deposits
Uranium (pCi/L)	2007	10.4	10-11	20	0.5 (0)	Erosion of natural deposits
Selenium (ppb)	2008	11.8	11.6-12.0	50	50 (50)	Erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive); discharge from petroleum, glass and metal refineries

TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Color (Units)	2009	5	ND – 10	15	NA (NA)	Naturally occurring organic materials
Odor (Units)	2009	<1	<1	<1	NA (NA)	Naturally occurring organic materials
Total Dissolved Solids TDS (ppb)	2009	1287	1189-1532	1000	NA (NA)	Runoff and leaching from natural deposits
Corrosivity (ppm)	2009	0.4	0.2-0.6	Non-Corrosive		Natural balance of hydrogen, carbon and oxygen in water; affected by temperature and other factors

Specific Conductance (micro mhos)	2009	1653	1600-1755	1600	NA (NA)	Substances that form ions when in water; seawater influence
pH (Units)	2009	7.5	7.2-7.6	6.5-8.5	NA (NA)	Natural balance of hydrogen and hydroxyl ions in water
Potassium (ppm)	2009	3.8	3.6-4.0	None	None	Runoff and leaching from natural deposits
Iron (ppm)	2009	<0.1	<0.10-0.13	0.3	None	Runoff and leaching from natural deposits
Manganese (ppm)	2009	0.02	<0.02-0.10	0.05	None	Runoff and leaching from natural deposits
Phosphate (ppm)	2009	ND	ND-0.09	None	None	Runoff and leaching from natural deposits
Sulfate (ppm)	2009	523	495-581	500	NA (NA)	Runoff and leaching from natural deposits and industrial wastes
Chloride (ppm)	2009	79	69-125	500	None	Runoff and leaching from natural deposits; seawater influence

TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
Boron (ppb)	2009	630	450-740	1000	Some men who drink water containing boron in excess of the action level over many years may experience reproductive effects, based on studies on dogs
Vanadium (ppb)	2002	8.1	3.2-13.5	50	Babies of some pregnant women who drink water containing vanadium in excess of the action level may have an increased risk of developmental effects, based on studies in laboratory animals
Radon (pCi/L)	2009	378	357-398	None	Exposure over a long period of time to air transmitting radon may cause adverse health effects. 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.

*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

For Systems Providing Ground Water as a Source of Drinking Water

(Refer to page 1, "Type of water source in use" to see if your source of water is surface water or groundwater)

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES

Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	(In the year) 0	Monthly	0	(0)	Human and animal fecal waste

Additional General Information on 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 (1-800-426-4791).

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. USEPA/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 (1-800-426-4791).

Copper and lead can be found in water as a result of the corrosion of plumbing fixtures used in most homes. High levels of copper are known to cause gastrointestinal disturbance and kidney damage. 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 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 at 1-800-426-4791 or <http://www.epa.gov/safewater/lead>.

The range of nitrate detected in the SCC water supply is 5.3 ppm to 29.2 ppm with an average of 8.9 ppm. Nitrate in drinking water at levels above 45 ppm is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

The range of radon detected in the SCC water supply in the samples tested is 357 to 398 pico-curries per liter. There is no federal regulation for radon levels in drinking water. Exposure over a long period of time to air transmitting radon may cause adverse health effects. Radon is a known human carcinogen. Drinking water containing radon may cause an increased risk of stomach cancer. For more information, contact the State Radon Program (1-800-745-7236).

Sulfate and TDS are a result of runoff and leaching from natural deposits into the SCC groundwater. The contaminants are generally responsible for taste, odor, color and customer aesthetic concerns. These contaminants may cause but are not limited to the following: deposits and staining on plumbing fixtures, use of additional soap to clean, hard water spots on glassware, a need to bleach white clothes, and affects the taste in coffee or tea. Historically, there have been no customer complaints concerning the aesthetic aspect of your water quality.

If you use a water filtration or conditioning device in their home, you should be sure to follow the manufacturer's recommendations for maintenance to maintain performance.