

2012 Consumer Confidence Report

Monte Del Lago Water System

June 27, 2013

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, 2012.

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

Type of water source: The water system consists of two wells, Well 03 - primary and Well 01 - standby. The wells draw from the Aromas Sand aquifer. Water is pumped from the well into three storage tanks where a disinfectant is added and pumped into the distribution system. The water quality data below is for both wells.

Drinking Water Source Assessment: A source water assessment was conducted for the Well 01 in July 2001 and for Well 03 in March 2003. The source is considered most vulnerable to the following activities not associated with any detected contaminants: above ground storage tanks, and water supply wells. Contaminants associated with above ground storage tanks include heating oil, diesel fuel, gasoline, and other chemicals. Wells are a potential conduit for introducing contaminants to groundwater. You may contact the operator for more information.

For more information, contact: MCSI Water Systems Management

Phone: (831) 659-5360

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 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural activities 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 U.S. Environmental Protection Agency (USEPA) and California 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.

Water Quality Data Tables

The tables below list all of the drinking water contaminants that we detected during the most recent sampling of the constituent. The presence of 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.

SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA

Contaminant(s) (units)	Highest # Detected in a Month	# Of Months in Violation	MCL	MCLG	Typical Source
Total Coliform	0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform/E Coli	0	0	A routine sample and repeat sample detect total coliform and either sample also detects fecal coliform or E. coli	0	Human & animal fecal waste

SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER

Contaminant(s) (units)	PHG	AL	Number of Samples Collected	90 th Percentile Level Detected	# of Samples > AL	Sample Date	Typical Source
Copper (ppm)	0.17	1.3	10	0.229	0	9/2011	Erosion of natural deposits; leaching from wood preservatives; internal corrosion of household plumbing systems
Lead (ppb)	0.2	15	10	ND	0	9/2011	Internal corrosion of household plumbing systems; erosion of natural deposits

SAMPLE RESULTS SHOWING DISINFECTION BYPRODUCTS

Contaminant(s) (units)	PHG/ (MCLG)	MCL	Level Detected	Sample Date	Typical Source
Total Trihalomethanes (ppb)	N/A	80	1.2	8/2010	Byproduct of drinking water chlorination
Total Haloacetic Acids (ppb)	N/A	60	ND	8/2010	Byproduct of drinking water chlorination

SAMPLING RESULTS SHOWING THE DETECTION OF RADIOACTIVITY

Contaminant(s) (units)	PHG/ (MCLG)	MCL	Level Detected	Range	Sample Date	Typical Source
Gross Alpha Activity (pCi/L)	(0)	15	1.2	1.2-3.11	2006/2012	Erosion of natural deposits
Radium 226 (pCi/L)	0.05	3	0.06	0.04-0.07	2006	Erosion of natural deposits
Radium 228 (pCi/L)	0.019	2	0.08	0.70-0.90	2006	Erosion of natural deposits
Uranium (pCi/L)	0.43	20	1.3		2006	Erosion of natural deposits

DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD

Contaminant(s) (units)	PHG/ (MCLG)	MCL	Level Detected	Sample Date	Typical Source
Barium (ppm)	1	2	0.065	5/2012	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Chromium (ppb)	(100)	50	27	5/2012	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	2.0	1.0	0.18-0.26	2012/2008	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (ppm)	45	45	10-36	2012	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage, erosion of natural deposits

DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD

Contaminant(s) (units)	PHG/ (MCLG)	MCL	Level Detected	Sample Date	Typical Source
Chloride (ppm)	N/A	500	43-101	2012/2011	Runoff/leaching from natural deposits; sea water influence
Specific Conductivity	N/A	1600	504-830	2012/2011	Substances that form natural deposits; sea water influence
Sulfate (ppm)	N/A	500	7/26	2012/2011	Runoff/leaching from natural deposits; industrial waste
Total Dissolved Solids (ppm)	N/A	1000	320	5/2012	Runoff/leaching from natural deposits
Turbidity (NTU)	N/A	5	1.9-4.7	2012/2009	Soil runoff

SUBSTANCES OF INTEREST

Contaminant(s) (units)	MCL (AL)	Level Detected	Sample Date	Typical Source
Total Alkalinity (ppm)	N/A	178-183	2011/2012	Generally found in ground and surface water
Sodium (ppm)	N/A	42-49	2012/2011	Salt present in the water and is generally naturally occurring
Hardness (ppm)	N/A	160-215	2012/2011	Sum of polyvalent cations present in the water, generally magnesium and calcium and are usually naturally occurring
pH	(6.5-8.5)	6.9-7.4	2011/2012	A measurement of acidity, 7.0 being neutral

SAMPLING RESULTS FOR UNREGULATED CONTAMINANTS

Contaminant(s) (units)	Notification Level	Your Water	Range	Typical Source
Chromium hexavalent (ppb)	N/A	9.45	4.9-14	Runoff/leaching from natural deposits
Vanadium (ppb)	50	15	12-17	Runoff/leaching from natural deposits

Additional 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 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/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 Water Drinking Hotline (800-426-4791).

Lead – Specific Language for Community Water 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. Monte del Lago Water Company 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 or at www.epa.gov/safewater/lead.

Summary Information for Contaminants Exceeding an MCL, MRDL, AL or Violation:

- *Nitrate above 23 ppm (50% of the MCL), but below 45 ppm (the MCL) (as nitrate NO3):*
Nitrate in drinking water at levels above 45 mg/L 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 a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.
 - Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

Summary Information for Fecal Indicator-Positive Ground Water Source Samples, Uncorrected Significant Deficiencies, or Violation of Ground Water TT

- None

System Improvements and Updates:

- The water system made corrections as stated in the 2012 inspection. Two new booster pumps and a controller were added.
- The planned improvements include replacing the tanks and upgrading the standby well to active status.