

2006 Consumer Confidence Report

Water System Name: **Beaumont Cherry Valley Water District**

Report Date: July 2007

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, 2006.

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

Type of water source(s) in use: Well Water

Name & location of source(s): City of Beaumont, Cherry Valley and Edgar Canyon

Drinking Water Source Assessment information: Completed November 2003, updated annually

Time and place of regularly scheduled board meetings for public participation: Second Wednesday of every month at 7:00 p.m. Please see board meeting agenda posted at the B.C.V.W.D. temporary office for meeting location 72 hours before all board meetings.

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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 level of a disinfectant added for water treatment that may not be exceeded at the consumer'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 risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

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)

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 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.

In order to ensure that tap water is safe to drink, the USEPA and the state Department of Health Services (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 must 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 (to be completed only if there was a detection of bacteria)	Highest No. of detections	No. of months in violation	MCL	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	(In a mo.) 0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present.
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						
Monitoring Completed in 2006						
Lead and Copper (to be completed only if there was a detection of lead or copper in the last sample set)	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ug/l)	30	<0.005	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (mg/l)	30	0.15	0	1.3	0.17	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 (mg/l)	2006	16.4 mg/l	11-36 mg/l	none	none	Generally found in ground & surface water
Hardness (mg/l)	2006	185.4 mg/l	170-220 mg/l	none	none	Generally found in ground & surface water
Calcium (mg/l)	2006	47.4 mg/l	43-57 mg/l	none	none	Generally found in ground & surface water
Magnesium (mg/l)	2006	16 mg/l	15-19 mg/l	none	none	Generally found in ground & surface water

*Any violation of an MCL or AL is marked with an asterisk. 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
Fluoride (mg/l)	2006	0.4 mg/l	0.4-0.7 mg/l	2 mg/l	1 mg/l	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (mg/l)	2006	8.2 mg/l	3.1-40 mg/l	45 mg/l	none	Runoff, leaching from fertilizer use; leaching from septic tank and sewage; erosion of natural deposits.
Potassium (mg/l)	2006	1.6 mg/l	1.2-2.0 mg/l	none	none	N/A
Chromium (ug/l)	2006	6.6 ug/l	6.1-7.1 ug/l	50 ug/l	none	Erosion of natural deposits; chrome plating; discharge from steel and pulp mills.
Alkalinity (mg/l)	2006	170 mg/l	160-190 mg/l	none	none	N/A
Total Trihalomethanes (ug/l)	2006	1.23 ug/l	0.77-1.9 ug/l	80 ug/l	none	Byproduct of disinfection.
Monochloroacetic Acid (ug/l)	2006	6.05 ug/l	3.8-8.3 ug/l	none	none	Byproduct of disinfection.
Monobromoacetic Acid (ug/l)	2006	1.5 ug/l	1.2-1.8 ug/l	none	none	Byproduct of disinfection.
Bromodichloromethane (ug/l)	2006	0.50 ug/l	0-0.50 ug/l	none	none	Byproduct of disinfection.
Halocetic Acids {HAA5} (ug/l)	2006	7.4 ug/l	5.3-9.5 ug/l	60 ug/l	none	Byproduct of disinfection.
Dibromochloromethane (ug/l)	2006	0.58 ug/l	0.51-0.67 ug/l	none	none	Byproduct of disinfection.

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
Turbidity (NTU or Nephelometric Turbidity Units)	2006	0.20 NTU	0.20-0.21 NTU	5 NTU	none	Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth.
Chloride (mg/l)	2006	7.8 mg/l	3.2-20 mg/l	500 mg/l	none	Runoff, leaching from natural deposits.
Sulfate (mg/l)	2006	26.2 mg/l	17-36 mg/l	500 mg/l	none	Runoff, leaching from natural deposits; industrial wastes.
Specific Conductance (umhos/cm or micro-mhos)	2006	408.3 umhos/cm	230-530 umhos/cm	1,600 umhos/cm	none	Substances that form ions when in water.
MBAS {Foaming agents} (mg/l)	2006	0.09 mg/l	0.09-0.10 mg/l	0.5 mg/l	none	Municipal and industrial waste discharge.
Total Dissolved Solids (mg/l)	2006	280 mg/l	230-350 mg/l	1000 mg/l	none	Runoff, leaching from natural deposits.
PH (PH units)	2006	7.4 PH units	7.2-7.9 PH units	none	none	N/A

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

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).

Beaumont Cherry Valley Water District has a nine year waiver to sample Synthetic Organic Chemicals (soc) from January 1, 2002 through December 31, 2010.

Summary Information for Contaminants Exceeding an MCL, MRDL, or AL, or a Violation of Any Treatment Technique or Monitoring and Reporting Requirement

In 2006 the District experienced increased nitrate levels that has been traced to on-site septic systems. Levels at two separate sources have exceeded 1/2 the MCL (45mg/l). On March 28 2006 well 21 tested at 32mg/l and on May 31 2006 well 16 tested at 40mg/l. Title 22 of the California Regulations Related to Drinking Water require, "For public water systems using groundwater, the repeat monitoring frequency shall be for at least one year following any one sample in which the concentration is greater than or equal to 50 percent of the MCL. After four consecutive quarterly samples are less than the MCL, a system may request that the Department reduce monitoring frequency to annual sampling".

The District is voluntarily blending the water from the two sources mentioned above with other sources which have maintained acceptable Nitrate levels. Since January 2006 the District increased monitoring at wells 16 and 21 from quarterly to monthly and in March 2006 the District decided to further increase monitoring to biweekly at the two sources and also the blended water from their respective storage tanks.

The average results Are as follows:

Well 16, 19.4mg/l Well 21, 10.7mg/l

Blended Water:

Vineland Reservoir, 8.9mg/l Cherry Reservoir, 9.8mg/l

Typical source of contamination,

Runoff, leaching from fertilizer use; leaching from septic tank and sewage; erosion of natural deposits.
