

# 2008 Consumer Confidence Report

Water System Name: ARCOHE ELEMENTARY SCHOOL Report Date: June 1, 2009

*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, 2008.*

**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: UNTREATED GROUND WATER

Name & location of source(s): MAIN WELL AND EAST WELL  
11755 IVIE ROAD, HERALD, CA

Drinking Water Source Assessment information: A source assessment was completed May 2002. The well is considered most vulnerable to septic systems- low density. The source assessment for the east well has not been completed. Sacramento County will complete the assessment.

Time and place of regularly scheduled board meetings for public participation: N/A

For more information, contact: CHRIS MARCIEL Phone: (209) 748-2313 EXT. 333

## 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 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.

*\*Any violation of an MCL, AL, MRDL, or TT, is marked with an asterisk. Additional information regarding the violation is provided later in this report.*

**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	0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	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 (to be completed only if there was a detection of lead or copper in the last sample set)	No. of samples collected	90 <sup>th</sup> percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
Lead (ppb)09/28/07	5	ND	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 09/28/07	5	0.086 ppm	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 (ppm)	08/02/06	11 ppm		none	none	Generally found in ground & surface water
Hardness (ppm)	08/02/06	65 ppm		none	none	Generally found in ground & surface water

**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
Gross Alpha	07/30/08-12/30/08	1.31 pCi/L	0.950-1.670 pCi/L	15 pCi/L	(0)	Erosion of natural deposits
Nitrate	06/27/08	4.4 ppm	3.3-5.5 ppm	45 ppm	45 ppm	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Radium 228	2/21/07	0.4795 pCi/L	0.339-0.62 pCi/L	5 pCi/L	(0)	Erosion of natural deposits
Arsenic	07/21/04	2.0 ppb		10 ppb	0.004 ppb	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Toluene	08/02/06	2.0 ppb		150 ppb	150 ppb	Discharge from petroleum and chemical factories; underground gas tank leaks
Chromium	08/02/06	10 ppb		50 ppb	100	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits

**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
Zinc	07/21/04-08/02/06	62-52 ppb		5000 ppb	n/a	Runoff/leaching from natural deposits; industrial wastes
Color	04/10/86-08/02/06	2-5 units		15 units	n/a	Naturally-occurring organic materials
Sulfate	04/10/86-08/02/06	2.3-8 ppm		500 ppm	n/a	Runoff/leaching from natural deposits; industrial wastes
Chloride	04/10/86-8/02/06	5.6-9.3 ppm		500 ppm	n/a	Runoff/leaching from natural deposits; seawater influence
TDS	04/10/86-08/02/06	98-190 ppm		1000 ppm	n/a	Runoff/leaching from natural deposits
Specific Conductance	04/10/86-8/02/06	160-170 $\mu$ S/cm		1600 $\mu$ S/cm	n/a	Substances that form ions when in water; seawater influence
Turbidity	04/10/86-8/02/06	0.45-11* NTU		5 NTU	n/a	Soil runoff
Aluminum	08/02/06	540 ppb		200 ppb	n/a	Erosion of natural deposits; residual from some surface water treatment processes
Iron	08/02/06	700 ppb		300 ppb	n/a	Leaching from natural deposits; industrial wastes
Manganese	08/02/06	24 ppb		50 ppb	n/a	Leaching from natural deposits

**TABLE 6 - DETECTION OF UNREGULATED CONTAMINANTS**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Notification Level	Health Effects Language
Vanadium	07/21/04	7.8 ppb	50 ppb	

\*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).

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

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This CCR combines water quality information from both wells located on the main campus and east campus.

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The required Winter 2008 Lead and Copper for the East Campus well was not completed

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\*Turbidity sample was taken shortly after the east well was completed resulting in the high turbidity result.

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