2009 Consumer Confidence Report

Water System Name: Gran Mutual Water Co. PWS 04-00008 Report Date: June 15th 2010

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.

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:	Two deep groundwater wells
Name & location of source(s):	Well Site #1 located at Lava Rock Drive, Chico, Ca.
	Well Site #2 located at Eagle Nest Drive, Chico, Ca.

Drinking Water Source Assessment information:2007 Water System Inspection by and report available fromButte County Health Department, 202 Mira LomaDrive, Oroville, Ca.Phone: 530-538-7281

Time and place of regularly scheduled board meetings for public participation:Every third Thursday of the monthat 11:30 am at Nashes Restaurant, 1717 Esplanade, Chico, Ca.Every third Thursday of the month

For more information, contact: Kevin O'Shea

Phone: (530) 531-5948 (24/7)

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest Primary Drinking Water Standards (PDWS): MCLs and level of a contaminant that is allowed in drinking water. MRDLs for contaminants that affect health along with their Primary MCLs are set as close to the PHGs (or monitoring and reporting requirements, and water treatment MCLGs) as is economically and technologically requirements. feasible. Secondary MCLs are set to protect the odor, Secondary Drinking Water Standards (SDWS): MCLs for taste, and appearance of drinking water. contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which health at the MCL levels. there is no known or expected risk to health. MCLGs Treatment Technique (TT): A required process intended to are set by the U.S. Environmental Protection Agency reduce the level of a contaminant in drinking water. (USEPA). Regulatory Action Level (AL): The concentration of a Public Health Goal (PHG): The level of a contaminant contaminant which, if exceeded, triggers treatment or other in drinking water below which there is no known or requirements that a water system must follow. expected risk to health. PHGs are set by the California Environmental Protection Agency. Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique Maximum Residual Disinfectant Level (MRDL): The under certain conditions. highest level of a disinfectant allowed in drinking water. **ND**: not detectable at testing limit There is convincing evidence that addition of a disinfectant is necessary for control of microbial **ppm**: parts per million or milligrams per liter (mg/L) contaminants. **ppb**: parts per billion or micrograms per liter (ug/L) Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant **ppt**: parts per trillion or nanograms per liter (ng/L) below which there is no known or expected risk to ppq: parts per quadrillion or picogram per liter (pg/L) health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. 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	МС	L	MCLG	Typical Source of Bacteria
Total Coliform Bacteria	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>	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	– SAMPLIN	G RESULT	FS SHOWING	THE DETE	CTION O	F 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) Tested 12/24/07	5	<5	0	15	2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppb) Tested 12/24/07	5	195.5	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) well 1 & 2	1992 / 2006	6.5 / 7		none	none	Salt present in the water and is generally naturally occurring

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Hardness (ppm) well 1 & 2	1992 / 2006	122 / 96		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						
TABLE 4 – DET	ECTION OI	F CONTAN	AINANTS WI	TH A <u>PRIN</u>		KING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Nitrate (NO3) in ppm Well 1 & Well 2	09/16/09 09/16/09	0.9 0.5	0.4 0.4	45 45	45 45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Barium in ppb	02/12/09	27.8	0.2	1000	2,000	Discharge of oil drilling wastes and from
Well 1 & Well 2	12/11/09	22.0	0.2	1000	2,000	metal refineries; erosion of natural deposits
Chromium in ppb Well 1	02/12/09	2	1	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Gross Alpha in pCi/L Well 1 & Well 2	12/31/08 12/31/08	1.51 0.3855	3	15	(0)	Erosion of natural deposits
Radium 228 in pCi/L Well 1 & Well 2	12/31/08 12/31/08	0.011 0.0145	1	5	(0)b	Erosion of natural deposits
			NANTS WIT	H A SECO	NDARY DR	INKING WATER STANDARD
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Total dissolved solids in ppm Well #1	05/02/01	160		1,000		Runoff / leaching from natural deposits
Total dissolved solids in ppm Well #2	12/07/06	155		1,000		Runoff / leaching from natural deposits
	TABLE 6	– DETECT	FION OF UNF	REGULAT	ED CONTA	MINANTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notifica	tion Level	Health Effects Language
Vanadium in ppb Well #1 Well #2	2/12/09 12/11/09	6 8	2 2	50 50		The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals.

*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 Violation of Any TT or Monitoring and Reporting Requirement

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
E. coli	0 in 2009		0	(0)	Human and animal fecal waste
Enterococci	0 in 2009		TT	n/a	Human and animal fecal waste
Coliphage	0 in 2009		TT	n/a	Human and animal fecal waste

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

For Systems Providing Surface 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 8 - SAMPLING RESULTS SHOWING TREATMENT OF SURFACE WATER SOURCES				
Treatment Technique ^(a) (Type of approved filtration technology used)				
Turbidity Performance Standards ^(b) (that must be met through the water treatment process)	Turbidity of the filtered water must: 1 – Be less than or equal to NTU in 95% of measurements in a month. 2 – Not exceed NTU for more than eight consecutive hours. 3 – Not exceed NTU at any time.			
Lowest monthly percentage of samples that met Turbidity Performance Standard No. 1.				
Highest single turbidity measurement during the year				
Number of violations of any surface water treatment requirements				

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

(b) Turbidity (measured in NTU) is a measurement of the cloudiness of water and is a good indicator of water quality and filtration performance. Turbidity results which meet performance standards are considered to be in compliance with filtration requirements.

* Any violation of a TT is marked with an asterisk. Additional information regarding the violation is provided earlier in this report.

Summary Information for Violation of a Surface Water TT