2013 Consumer Confidence Report

Water System Name:	Alta Sierra Mutual Water Company Report Date: May 1, 2014
	ter quality for many constituents as required by state and federal regulations. This report shows oring for the period of January 1 - December 31, 2013 and may include earlier monitoring data.
Este informe contiene i entienda bien.	información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo
Type of water source(s)	in use: Horizontal and Vertical Wells (Groundwater)
Name & location of sour	rce(s): Our water source is a blended supply derived from six gravity driven horizontal wells
and one electrically pow	vered vertical well. The corporation has Riparian water rights to these sources.
_	Assessment information: A Source Water Vulnerability Assessment Report was completed
	e report is available on our website.
Time and place of regula	arly scheduled board meetings for public participation: Memorial Day and Labor Day
weekends at Alta Sierra.	
For more information, co	ontact: William Preston Phone: (760) 376-1561

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.

Variances 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 (μg/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.

water, generally magnesium and calcium, and are usually naturally occurring

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 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.

Tables 1, 2, 3, 4, 5, 7, and 8 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 T	HE DETECT	TION OF C	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.)	0	More than 1 sample in a month with a detection		0	Naturally present in the environment
Fecal Coliform or E. coli	(In the year)	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 RESUL	IS SHOWING	THE DETE	CTION 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)	8	8.0	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	8	.300	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
	TABLE 3 –	SAMPLII	NG RESULTS	FOR SODIU	M AND H	ARDNESS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	05-29-13	6.4		none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	05-29-13	110		none	none	Sum of polyvalent cations present in the

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

TABLE 4 – DET	ECTION O	F CONTAI	MINANTS WIT	ГН A <u>PRIN</u>	<u>MARY</u> DRIN	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
Radium 228 (pCi/L)	11-21-13	<1.0		5	0.019	Erosion of natural deposits
Toluene (ppb)	9-9-11	50		150	700	Discharge from petroleum and chemical factories; underground gas tank leak.
Total Xylenes (ppm)	11-14-11	<0,50	<0.50 - <0.50	1.750	1.8	Discharge from petroleum and chemical factories; fuel solvent
Total Trihalomethanes (ppb)	11-14-11	.85	<0.50 - 1.2	80	n/a	By-product of drinking water disinfection
TABLE 5 – DETE	CTION OF	CONTAM	INANTS WITI	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
Color (units)	05-29-13	<1.0		15	n/a	Naturally-occurring organic materials.
Turbidity (units)	05-29-13	<1.0		5	n/a	Soil runoff
Total dissolved solids (ppm)	05-29-13	160		1000	n/a	Runoff / leaching from natural deposits
Specific Conductance (micomhos)	05-29-13	200		1600 n/a Substance that form ions when seawater influence		Substance that form ions when in water; seawater influence
Chloride (ppm)	05-29-13	1.9		500	n/a	Runoff / leaching from natural deposits; seawater influence
Sulfate (ppm)	05-29-13	3.9		500	n/a	Runoff / leaching from natural deposits; industrial influence
Foaming Agents (MBAS) (ppb)	05-29-13	<0.050		500	n/a	Municipal and industrial waste discharge
	TABLE 6	– DETEC	TION OF UNR	EGULATI	ED CONTAI	MINANTS
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level Health Effects Languag		Health Effects Language
Boron (ppm)	7-8-08	.0038		1		May cause birth defects if far in excess of notification level
Trichloropropane (ppt) (1,2,3-TCP)	5-6-10	<0.50		5		May cause increased risk of cancer if far in excess of notification level
Methyl isobutyl Ketone (MIBK) (ppb)	9-14-11	<.10		120		n/a

^{*}Any violation of an MCL, MR

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	(In the year) NONE		0	(0)	Human and animal fecal waste		
Enterococci	(In the year)		TT	n/a	Human and animal fecal waste		
Coliphage	(In the year)		TT	n/a	Human and animal fecal waste		

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

SPECIAL	NOTICE OF FECAL IND	ICATOR-POSITIVE	GROUND WATER SOURCE S	SAMPLE
10-14-14-14-14-14-14-14-14-14-14-14-14-14-				
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	SPECIAL NOTICE FOR	UNCORRECTED SIG	GNIFICANT DEFICIENCIES	
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	VIOLA	TION OF GROUND V	WATER TT	
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
NONE				
NONE				
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For Systems Providing Surface Water as a Source of Drinking Water

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					

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requirements	
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 below.

Summary Information for Violation of a Surface Water TT

	VIOLATION OF A SURFACE WATER TT							
TT Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language				
NONE								

Summ	ary Informat	tion for Operat	ing Under a	a Variance or	Exemption	
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