

BIGHORN-DESERT VIEW WATER AGENCY

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Consumer Confidence Report Year-Ending 2009

Last year, as in years past, your tap water met all EPA and State drinking water health standards. Bighorn-Desert View Water Agency vigilantly safeguards its water supplies and once again, we are proud to report no violations of a maximum contaminant level or secondary water quality standard in 2009.

EDUCATION INFORMATION

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 EPA's Safe Drinking Water Hotline at 1-800-426-4791 or visit their website at <http://www.epa.gov/ow/>

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons include persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, and 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 at 1-800-426-4791.

POSSIBLE CONTAMINANTS

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 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants that can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, U.S. Environmental Protection Agency (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 must provide the same protection for public health.

*No habla ingles? Este informe contiene informacion muy importante sobre su agua potable.
Traduscalo o hable con alguien que lo entienda bien.
Llame 760-364-2315*

WATER QUALITY ANALYSIS RESULTS

Bighorn-Desert View Water Agency operates eight ground water wells in the Ames-Means Valley Groundwater Basin and Johnson Valley Groundwater Basin serving a 45-square mile area encompassing the communities of Flamingo Heights, Landers, and Johnson Valley. Last year, we conducted testing for many constituents. This report shows the results of our monitoring for the period of January 1 – December 31, 2009. The table on the following page shows the actual test results of your drinking water and compares them with constituents level limits and goals set by the Environmental Protection Agency to ensure your tap water is safe. Some of the constituents in this list reflect those, which have exceeded the Detection Level for Reporting Purposes but have not exceeded the Maximum Contaminant Level. Others such as Sodium and Hardness are listed for informational purposes only.

AN EXPLANATION OF UNITS OF MEASURE USED IN THIS REPORT

Parts per million (ppm) - A measurement of the concentration of a substance roughly equivalent to one drop in forty-two gallons.

Parts per billion (ppb) - A measurement of the concentration of a substance roughly equivalent to one drop in 14,000 gallons.

Picocuries per liter (pCi/L) - A measure of radioactivity.

ND - Not detectable at testing limit.

IMPORTANT DEFINITIONS

No Standard (NS)- No set standard.

Maximum Contaminant Level (MCL) - The highest level of a contaminant allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. The U.S. Environmental Protection Agency sets secondary MCLGs.

Public Health Goals (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 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.

Primary Drinking Water Standard (PDWS) - MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Regulatory Action Level - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

HEALTH EFFECTS

Fluoride - Some people who drink water, containing fluoride in excess of the federal MCL of 4 mg/L, over many years may get bone disease, including pain and tenderness of the bones. Children who drink water, containing fluoride in excess of the state MCL of 2 mg/L, may get mottled teeth.

Nitrate - Infants below the age of six months who drink water, containing nitrate in excess of the MCL, may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen. Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood in pregnant women.

Nitrate+Nitrite as Nitrogen - Infants below the age of six months who drink water-containing nitrite in excess of the MCL may quickly become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blueness of the skin.

Uranium - Some people who drink water over many years containing uranium in excess of the MCL may have kidney problems or an increased risk of getting cancer.

Gross Alpha - Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

Lead - 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. Bighorn Desert View Water Agency 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 <http://www.epa.gov/safewater/lead>.

Unregulated Contaminant Monitoring - Helps EPA and the California Department of Public Health to determine where certain contaminants occur and whether the contaminants require regulation.

Bighorn-Desert View Water Agency operates two separate water systems. Table "A" are test results from Wells 2, 3, 4, 6, 7, 8, and 9 from the Flamingo Heights-Landers area. Table "B" are results from the Agency's stand-alone system, Well 10 in the Johnson Valley area used for bulk hauling only.

Table "A" CONSTITUENTS (YEAR SAMPLED)	STATE MAXIMUM CONTAMINANT LEVEL	PUBLIC HEALTH GOAL OR MCLG	BDVWA AVERAGE RESULTS	BDVWA RANGE OF RESULTS	VIOLATION
<u>General Mineral, Physical & Inorganic Chemical Analysis</u>					
Total Dissolved Solids (2009) <i>Runoff leaching from natural deposits</i>	1000 mg/L	NS	310 mg/L	280–340 mg/L	No
Arsenic (2009) <i>Major sources - Natural occurring organic materials</i>	10 ppb	4 ppb	2.8 ppb	0 – 5.7 ppb	No
Fluoride (2009) <i>Major sources - Erosion of natural deposits, discharge from fertilizer</i>	2.0 ppm	1	.74 ppm	.56 – .91 ppm	No
Copper (2009) <i>Major sources - Erosion of natural deposits</i>	1300 ppb	300 ppb	ND	ND ppb	No
Nitrate (2009) <i>Major sources - Leaching from septic tanks, erosion of natural deposits</i>	45 ppm	45 ppm	8.15 ppm	6.3 – 10 ppm	No
Nitrate+Nitrate as Nitrogen (2009) <i>Major sources - Leaching from septic tanks, erosion of natural deposits</i>	10,000 ppb	NS	1950 ppb	1600-2300 ppb	No
Hardness (2008) <i>Major sources - Dissolved calcium, magnesium, strontium, ferrous iron & manganese</i>	NS	NS	127 ppm	64 – 190 ppm	No
Sodium (2009) <i>Major sources - Generally naturally-occurring salt present in water</i>	NS	NS	64 ppm	49 – 79 ppm	No
<u>Disinfection byproducts Analysis</u>					
Total Trihalomethanes (TTHM) (2009) <i>Major sources - By-product of drinking water chlorination</i>	80 ppb	NS	5.5 ppb	1.3 – 9.8 ppb	No
Total Haloacetic Acid (HAA5) (2009) <i>Major sources - By-product of drinking water chlorination</i>	60 ppb	NS	ND	ND ppb	No
<u>Unregulated Contaminants Analysis</u>					
Boron (2009) <i>Major sources - Erosion of natural deposits</i>	NS	1000 ppb	65 ppb	0 – 130 ppb	No
Vanadium (2009) <i>Major sources - Erosion of natural deposits</i>	NS	50 ppb	10.4 ppb	8.2 – 19 ppb	No
<u>Radioactivity Analysis</u>					
Uranium (2009) – <i>Major sources – Erosion of natural deposits</i>	20 pCi/L	NS	18 pCi/L	8 – 16 pCi/L	No
Gross Alpha (2009) – <i>Erosion of natural deposits</i>	15 pCi/L	0 pCi/L	15 pCi/L	0 - 16	No

SOURCE WATER ASSESSMENT

A drinking water source assessment was completed for Wells 2, 3, 4, 6, 7, 9, and 10 of the Bighorn-Desert View Water Agency water system in December 2002. These wells are considered susceptible to septic leachate and erosion of natural deposits. You may request a summary of the assessment be sent to you by contacting Andres Aguirre at the California Department of Public Health at 909-383-4308.

Bighorn-Desert View Water Agency operates two separate water systems. Table “A” are test results from Wells 2, 3, 4, 6, 7, 8, and 9 from the Flamingo Heights-Landers area. Table “B” are results from the Agency’s stand-alone system, Well 10 in the Johnson Valley area used for bulk hauling only.

Table “B” CONSTITUENTS (YEAR SAMPLED) (Well 10)	STATE MAXIMUM CONTAMINANT LEVEL	PUBLIC HEALTH GOAL OR MCLG	BDVWA Well 10 RESULTS	BDVWA RANGE OF RESULTS	VIOLATION
<u>General Mineral, Physical & Inorganic Chemical Analysis</u>					
Total Dissolved Solids (2008) - <i>Runoff, leaching from natural deposits</i>	1000 mg/L	NS	375 mg/L	350–400 mg/L	No
Arsenic (2008) <i>Major sources - Natural occurring organic materials</i>	10 ppb	4 ppb	3.3 ppb	0 - 3.3	No
Fluoride (2008) <i>Major sources - Erosion of natural deposits, discharge from fertilizer</i>	2.0 ppm	1	0.71 ppm	.68 – .71 ppm	No
Nitrate (2008) <i>Major sources - Leaching from septic tanks, erosion of natural deposits</i>	45 ppm	45 ppm	6.1 ppm	5.8 – 6.1 ppm	No
Nitrate+Nitrate as Nitrogen (2008) <i>Major sources - Leaching from septic tanks, erosion of natural deposits</i>	10,000 ppb	NS	1350 ppb	1300 -1400 ppb	No
Iron (2008) - <i>Leaching from natural deposits</i>	300 ppb	NS	200 ppb	0 - 200 ppb	No
Hardness (2008) <i>Major sources - Dissolved calcium, magnesium, strontium, ferrous iron & manganese</i>	NS	NS	68 ppm	66 – 70 ppm	No
Sodium (2008) <i>Major sources - Generally naturally-occurring salt present in water</i>	NS	NS	104 ppm	97 – 110 ppm	No
<u>Unregulated contaminants</u>					
Boron (2008) <i>Major sources - Erosion of natural deposits</i>	NS	1000 ppb	183 ppb	110 – 190 ppb	No
Vanadium (2008) <i>Major sources - Erosion of natural deposits</i>	NS	50 ppb	25.0 ppb	5 – 20 ppb	No
Chromium, hexavalent (2003) <i>Steel & pulp mill discharges, chrome plating, natural erosion</i>	NS	NS	2.6 ppb	Not Applicable	No
<u>Disinfection Byproducts Analysis</u>					
Total Trihalomethane (TTHM) (2009) - <i>By-product of drinking water chlorination</i>	80 ppb	NS	2.5 ppb	2.1 – 3.0 ppb	No
Total Haloacetic Acid (HAA5) (2009) - <i>By-product of drinking water disinfection</i>	60 ppb	NS	ND	ND	No

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TAP MONITORING FOR LEAD

20 sites sampled in 2006 Regulatory Action Level - 15 ppb No sites exceeded the Action Level
Detection Limit for Reporting = 5 ppb 90th Percentile – ND No violation

TAP MONITORING FOR COPPER

20 sites sampled in 2006 Regulatory Action Level - 1300 ppb No sites exceeded the Action Level
Detection Limit for Reporting = 50 ppb 90th Percentile – 150 ppb No violation

*Likely sources are corrosion from home plumbing, erosion of natural deposits
and leaching from wood preservatives*

Lead and Copper scheduled to be sampled in summer 2010

If you have questions about this report or want to learn more about the Agency, you may contact the Agency's General Manager, Marina D. West, PG at 760-364-2315. To learn more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791 or visit their website at <http://www.epa.gov/ow/>.

BOARD OF DIRECTORS

President	Terry Burkhart
Vice President	Larry Coulombe
Member	David Larson
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Member	Martha Oswalt

Regular Board of Directors Meetings are held monthly on the fourth Tuesday at 6 PM at 1720 Cherokee Trail, Landers, CA 92285. The public is invited to attend. To confirm meeting dates, times, locations or agendas, please visit our website @ www.bdvwa.org or contact Joanne L Keiter, Board Secretary at 760-364-2315.

Finance/Personnel/Public Relations & Education (FPREP) Committee Meetings:

Second Wednesday of every other month - 4:00 PM

Planning & Engineering/Legislative/Grant/Security (PLEGS) Committee Meetings:

Third Thursday of every other month - 8:45 AM



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Issue for Year - Ending 2009

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