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2007 Annual Drinking Water Quality Report

PWSID#00156

We're very pleased to provide you with the Annual Drinking Water Quality Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide to you a safe and dependable supply of drinking water. Our water source is surface water from the Yellowstone River. At the present time we serve approximately 5,850 people. We are in the process of discussing a source water protection plan that will provide more information such as potential sources of contamination.

We're pleased to report that our drinking water is safe and meets federal and state requirements. If you have any questions about this report or concerning your water, please contact **Richard Koehn, George Schneider, Tony Reed, or Nick Baker**. They are all certified operators with years of experience. If they are not available, our secretary/bookkeeper, **Barbara Berry Nies** will have them return your call. If you want to learn more about our water, please call us at 259-4120 or attend any of our regularly scheduled water board meetings. They are held on **the fourth Wednesday of every month at 7:00 pm at 1644 Old Hardin Rd.**

The water is treated with ferric chloride and polymers, filtered, then chlorinated for disinfection prior to entering the distribution system. Lockwood Water and Sewer District routinely monitors for constituents in your drinking water according to Federal and State laws. The following table shows the results of any detects in our monitoring for the period of **January 1st to December 31st, 2007**. For constituents that are not monitored yearly, we have reviewed our records back the last five years.

We have monitored for lead and copper, and all of our samples have been in compliance with the Lead and Copper Rule.

Date sampled	Parameter	90 TH percentile value	Unit of measurement	Action level	Source of contamination
9/10/05	Lead	5	ppb	15	Household plumbing
9/13/05	Copper	0.22	ppm	1.3	Household plumbing

In the tables above and below you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Parts per million (Ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (Ppb) or micrograms per liter (ug/L)-one part per billion corresponds to one minute in 2000 years or a single penny in \$10,000,000.

Nephelometric Turbidity Unit (NTU) – A Nephelometric Turbidity Unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - (mandatory language) A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level - (mandatory language) The "Maximum Allowed" (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal - (mandatory language) The "Goal"(MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Microbiological Contaminants

Parameter	Units	Violation YES/NO	Highest single measurement Value & date	Lowest monthly % of samples meeting the limits	MCL	Source of contamination
Turbidity	NTU	No	0.114 8/13/07	100% FOR ALL MONTHS	TT	Soil runoff
Total organic carbon	Ppm	No	1.2-4/16/07	NA	TT	Naturally present in the environment

TEST RESULTS								
Contaminant	Violation Y/N	Sample Date	Highest Level Detected	Unit of Measurement	MCLG	MCL	Likely Source of Contamination	
Inorganic Contaminants								
Fluoride	N	2/14/07	0.53	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth	
Nitrate + nitrite as N	N	2/14/07	0.35	ppm	10	10	Runoff from fertilizer use. Leaching from septic tanks, sewage, erosion of natural deposits	
Disinfection By-products								
Range								
Total trihalomethanes (TTHMs)	N	5/17/07	67	34-67	Ppb	0	80	By-product of drinking water chlorination
Haloacetic Acids (HAAs)	N	5/17/07	70	36-70	Ppb	0	60	By-product of drinking water chlorination

Our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water **IS SAFE** at these levels.

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or are man made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials.

All 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

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. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.

