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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 Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791). 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 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:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- (E) Radioactive contaminants, which 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immunocompromised persons such as those 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 are available from the Safe Drinking Water Hotline (800-426-4791).

Public Water Supply Dist. #3
of Franklin County
150 Old Highway 100
Villa Ridge, MO 63089

Public Water Supply District #3 of Franklin County (Lake Serene)



Water Quality Report 2010



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may be required by law. This report details where our water comes from, what it contains, and the risks our water testing and treatment are designed to prevent. The Franklin County Public Water Supply District #3 is committed to providing you with the safest and most reliable water supply possible. Informed consumers are our best allies in maintaining safe drinking water. Call us for information about the next opportunity for public participation in decisions about our drinking water. For further information, see the U.S. Environmental Protection Agency (EPA) water information at www.epa.gov/safewater/.

Concerning Lead in Our Water

Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

Other monitoring

In addition to testing we are required to perform, our water system voluntarily tests for hundreds of additional substances and microscopic organisms to make certain our water is safe and of high quality. If you are interested in a more detailed report, contact Local Manager, Bob Hathcock at 636-742-5200.

The Franklin County Public Water Supply District #3 utilizes state and private laboratories to perform analysis for 188 pollutants and microbiological contamination. Of the 188 contaminants tested for, traces of only 9 were detected. All were below the allowed level illustrated in the following table.

The current water supply for the Franklin County Public Water Supply District #3, Lake Serene consists of one deep well.

How to Read This Table

The chart in this report provides representative analytical results of water samples collected in 2010 from our system. Range represents historical high/low readings from multiple years. Please note the following definitions: Maximum Contaminant Level or MCL: 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 or MCLG: 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. Records marked with *, though representative, are more than one year old.

Key To Table

AL=Action Level

MCL=Maximum Contaminant Level

MCLG=Maximum Contaminant Level Goal

MFL=million fibers per liter

mrem/year-millirems per year (a measure of radiation absorbed by the body)

NTU=Nephelometric Turbidity Units TT=Treatment Technique

nd=not detectable at testing limits

pCi/L=picocuries per liter (a measure of radioactivity)

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

ppq=parts per quadrillion or picograms per liter

Contaminant	Date Tested	Unit	MCL	MCLG	Detected Level	Range	Major Sources	Violation
Inorganic Contaminants								
Barium	9/26/2008*	ppm	2	2	0.138	0.138	Discharge of drilling wastes, Discharge from metal refineries; Erosion of natural deposits.	No
Chromium	9/26/2008*	ppb	100	100	4.45	4.45	Discharge from steel and pulp mills	No
Fluoride	9/26/2008*	ppm	4	4	0.38	0.38	Erosion of natural deposits; Water additive which promotes strong teeth;	No
Radionuclide								
Gross Alpha Particles 2006*		pCi/L	15	0	6.2	6.2	Erosion of natural deposits.	No
Radium, (226,228) 2006 *		pCi/L	5	0	2.9	2.9	Erosion of natural deposits.	No
Radium-226 2006*		PIC/L	5	0	1.2	1.2		
Radium-228 2006*		PIC/L	5	0	1.7	1.7		

	Collected	Unit	MCL	MCLG	90th Percentile	Range	Sites Over AL	Sources
Copper	2010	ppm	AL=1.3	AL=1.3	0.129	0.0164-0.133	0	Corrosion of household plumbing system. Erosion of natural deposits; Leaching from wood preservatives.
Lead	2010	ppb	15	0	7.51	1.87 6 7.69	0	Corrosion of household plumbing systems; Erosion of natural deposits.

Microbiological

No microbiological detected results were found in the Calendar Year of 2010.

Violations and Health Effects Information

No violations occurred in the Calendar Year of 2010.

(Lake Serene)