

# LAKE OZARK

## 2009 Annual Water Quality Report

(Consumer Confidence Report)

MO3010441

*This report is intended to provide you with important information about your drinking water and the efforts made to provide safe drinking water.*

### Attention!

Este informe contiene información muy importante. Tradúscalo o pregúntele a alguien que lo entienda bien.

[translated: This report contains very important information. Translate or ask someone who understands this very well.]

### What is the source of my water?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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.

Our water comes from the following source(s):

Source Name	Type
WELL # 1 LAKLND-TO BE ABANDONED.	GROUND WATER
WELL # 2 MILLER	GROUND WATER
WELL # 3 - NORTH AREA	GROUND WATER

### Source Water Assessment:

The Department of Natural Resources conducted a source water assessment to determine the susceptibility of our water source to potential contaminants. This process involved the establishment of source water area delineations for each well or surface water intake and then a contaminant inventory was performed within those delineated areas to assess potential threats to each source. Assessment maps and summary information sheets are available on the internet at <http://maproom.missouri.edu/swipmaps/pwssid.htm>. To access the maps for your water system you will need the State-assigned identification code, which is printed at the top of this report. The Source Water Inventory Project maps and information sheets provide a foundation upon which a more comprehensive source water protection plan can be developed.

### Why are there contaminants in my 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 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).

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 stormwater 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, urban stormwater runoff, and residential uses.
- D. Organic chemical contaminants, including synthetic and volatile organic chemicals, 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, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

### Is our water system meeting other rules that govern our operations?

The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure it's safety. Our system has been assigned the identification number MO3010441 for the purposes of tracking our test results. Last year, we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. Any violations of state requirements or standards will be further explained later in this report.

### How might I become actively involved?

If you would like to observe the decision-making process that affect drinking water quality or if you have any further questions about your drinking water report, please call us at 573-365-5378 to inquire about scheduled meetings or contact persons.

### Do I need to take any special precautions?

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 microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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**Contaminants Report**

**Definitions:**

MCLG: Maximum Contaminant Level Goal, or 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.  
MCL: Maximum Contaminant Level, or 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.

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

TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

90th percentile: For lead and Copper testing. 10% of test results are above this level and 90% are below this level.

Level Found: is the average of all test results for a particular contaminant.

Range of Detections: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.

MRLDG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health.

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

**Abbreviations:**

PPB: parts per billion or micrograms per liter.

ppm: parts per million or milligrams per liter.

n/a: not applicable.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

MFL: million fibers per liter, used to measure asbestos concentration.

nd: not detectable at testing limits.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative.

**Regulated Contaminants**

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
BARIUM	2/2/2009	0.207	0.14 - 0.207	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
CHROMIUM	2/2/2009	4.73	4.14 - 4.73	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	2/2/2009	0.22	0.22	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE-NITRITE	3/12/2009	0.12	0.05 - 0.12	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection By Products	Monitoring Period	RAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2009	17	16.8	ppb	60	0	By-product of drinking water disinfection

Lead and Copper	Date	90 <sup>TH</sup> Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER	2005 - 2007	0.0952	0.0113 - 0.147	ppm	1.3	0	Corrosion of household plumbing systems
LEAD	2005 - 2007	3.1	1.15 - 3.47	ppb	15	0	Corrosion of household plumbing systems

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of June, 1 sample(s) returned as positive	MCL: Systems that Collect Less Than 40 Samples per Month - No more than 1 positive monthly sample	0	Naturally present in the environment

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Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
COMBINED RADIUM (-226 & -228)	5/23/2007	1.7	0.3 - 1.7	pCi/l	5		Erosion of natural deposits
GROSS ALPHA PARTICLE ACTIVITY	5/23/2007	7.4	3 - 7.4	pCi/l			Erosion of natural deposits
RADIUM-226	5/23/2007	1.7	0.3 - 1.7	pCi/l	5	0	

***Violations and Health Effects Information***

During the 2009 calendar year, we had the below noted violation(s) of drinking water regulations.

Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2009			

Any Additional Required Health Effects Language or Violation Notices

There are no additional required health effects notices.

There are no additional required health effects violation notices.

***Optional Monitoring (not required by EPA)***

***Optional Contaminants***

*Monitoring is not required for optional contaminants.*

Secondary Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ALKALINITY, CaCO3 STABILITY	2/2/2009	408	314 - 408	MG/L			
ALKALINITY, TOTAL	1/24/2006	342	110 - 342	MG/L			
CALCIUM	2/2/2009	66.9	63.1 - 66.9	MG/L			
CHLORIDE	2/2/2009	9.23	8.25 - 9.23	MG/L	250		
HARDNESS, CARBONATE	2/2/2009	322	291 - 322	MG/L			
IRON	2/2/2009	0.0139	0.0139	MG/L	0.3		
MAGNESIUM	2/2/2009	37.7	32.4 - 37.7	MG/L			
MANGANESE	2/2/2009	0.00508	0.00508	MG/L	0.05		
PH	2/2/2009	7.44	7.43 - 7.44	PH	8.5		
POTASSIUM	2/2/2009	3.13	0.9 - 3.13	MG/L			
SODIUM	2/2/2009	9.53	4.87 - 9.53	MG/L		20	
SULFATE	2/2/2009	15.4	7.81 - 15.4	MG/L	250		
TDS	2/2/2009	341	333 - 341	MG/L	500		
ZINC	2/2/2009	0.0635	0.0133 - 0.0635	MG/L	5		

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