

Rural Water District No. 7, Johnson County

- Water Quality Report (covers calendar year 2010)

This pamphlet lists water quality information for Rural Water District No. 7, Johnson County, Kansas. It includes limited details on the source and quality parameters and how our water compares to Environmental Protection Agency (EPA) and state standards. It's important that customers be aware of the efforts that are made continually to improve their water system. To learn more, please contact Allan Soetaert, Manager, at 913-856-7375. Meetings of the board of directors are held on the second Tuesday of each month at 5:30 p.m. at 534 West Main Street, Gardner, KS.

The water provided by RWD 7 is purchased from the City of Olathe and Rural Water District No. 2, Miami County. The water is treated to remove contaminants. A disinfectant is also added to protect the water supply against microbial contaminants. An assessment of our source water has been completed. For the results of the assessment, please contact us or download the results at www.kdheks.gov/nps/swap/SWreports.html.

A message from EPA

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. The city treats water according to EPA's regulations. Food and Drug Administration 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 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).

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 (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, in some cases, 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 before treatment may include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **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.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture and residential uses.

- **Radioactive contaminants**, which are naturally occurring.
- **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.

■ **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. Your water system 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 thirty seconds to two 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>.

■ **Total Coliform Rule (TCR):** Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public by newspaper, television or radio. During 2010, the utility collected five samples per month and all were in compliance.

Water Quality Data

The table on the reverse side lists all the drinking water contaminants that we detected during the 2010 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless noted, the data presented in this table is from testing done January 1 - December 31, 2010. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. The bottom line is that the water that is provided to you is safe.

Terms & Abbreviations

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 allow for a margin of safety.

Maximum Contaminant Level (MCL): the highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs allow for a margin of safety.

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

Treatment Technique (TT): a required process intended to reduce the level of contaminants in water

MRDL: Maximum Residual Disinfectant Level

N/A: not applicable; **ND:** non detect at testing limit

pCi/l: picocuries per liter (a measure of radiation)

ppb: parts per billion or micrograms per liter ($\mu\text{g/l}$)

ppm: parts per million or milligrams per liter (mg/l)

NTU: Nephelometric Turbidity Unit: measure of turbidity



Testing Results for Rural Water District No. 7, Johnson County

Rural Water District No. 7 had no violations of drinking water regulations in 2010. The water systems that the District purchases from had no violations in 2010.

Lead and Copper	Monitoring Period	90 th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2008 - 2010	0.41	0.0069 - 0.95	ppm	1.3	0	Corrosion of household plumbing
LEAD	2008 - 2010	4.7	1 - 7.3	ppb	15	0	Corrosion of household plumbing

The table below lists the water quality testing results of those systems which the District purchases water from.

Contaminant	Collection Date	System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ARSENIC	3/15/2010	City of Olathe	1.1	1.1	ppb	10	0	Erosion of natural deposits
ATRAZINE	6/21/2010	Miami County RWD 2	0.47	0.47	ppb	3	3	Runoff from herbicide used on crops
BARIUM	3/15/2010	City of Olathe	0.083	0.083	ppm	2	2	Discharge from metal refineries
CHROMIUM	3/15/2010	City of Olathe	2.8	2.8	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	1/25/2010	City of Olathe	1.3	0.25 - 1.3	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
NITRATE	3/15/2010	City of Olathe	0.61	0.57 - 0.61	ppm	10	10	Runoff from fertilizer use
SELENIUM	3/15/2010	City of Olathe	2.1	2.1	ppb	50	50	Erosion of natural deposits
TURBIDITY	3/19/2009	City of Olathe	0.59	0.59	NTU	1		Soil runoff

Secondary Contaminants	Collection Date	System	Highest Value	Range	Unit	SMCL
ALKALINITY, TOTAL	3/15/2010	City of Olathe	140	140	MG/L	300
ALUMINUM	3/15/2010	Miami County RWD 2	0.016	0.016	MG/L	0.05
CALCIUM	3/15/2010	City of Olathe	57	57	MG/L	200
CHLORIDE	3/15/2010	City of Olathe	53	53	MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	3/15/2010	City of Olathe	620	620	UMHO/CM	1500
CORROSIVITY	3/15/2010	City of Olathe	0.78	0.78	LANG	0
HARDNESS, TOTAL (AS CaCO3)	3/15/2010	City of Olathe	200	200	MG/L	400
MAGNESIUM	3/15/2010	City of Olathe	14	14	MG/L	150
MANGANESE	3/15/2010	Miami County RWD 2	0.0024	0.0024	MG/L	0.05
METOLACHLOR	6/21/2010	Miami County RWD 2	0.38	0.38	ppb	
NICKEL	3/15/2010	City of Olathe	0.0019	0.0019	MG/L	0.1
PH	3/15/2010	City of Olathe	8.5	8.5	PH	8.5
PHOSPHORUS, TOTAL	3/15/2010	City of Olathe	0.1	0.1	MG/L	5
POTASSIUM	3/15/2010	City of Olathe	6.6	6.6	MG/L	100
SILICA	3/15/2010	City of Olathe	12	12	MG/L	50
SODIUM	3/15/2010	City of Olathe	45	45	MG/L	100
SULFATE	3/15/2010	City of Olathe	96	96	MG/L	250
TDS	3/15/2010	City of Olathe	370	370	MG/L	500