

LAN DEL WATER DISTRICT

Consumer Confidence Report – 2009

Covering Calendar Year – 2008



This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. It is important that customers be aware of the efforts that are made continually improve their water systems. To learn more please attend any of the regular scheduled meetings which are held the 1st Wednesday of each month at 7:00 p.m. at the Water Dept. Office, 601 Holiday Plaza, Lansing, KS. For more information please contact, JOHN MARKSBERRY or RON PATTERSON at 913-727-3350.

Our drinking water is supplied from another water system through a Consecutive Connection (CC). To find out more about our drinking water sources and additional chemical sampling results, please contact our office at the number provided above. Your water comes from ground water under the influence of surface water we purchase from Kansas City Board of Public Utilities and Leavenworth Water Department.

Your water is treated to remove several contaminants and a disinfectant is added to protect you against microbial contaminants. The Safe Drinking Water Act (SDWA) required states to develop a Source Water Assessment (SWA) for each public water supply that treats and distributes raw source water in order to identify potential contamination sources. The state has completed an assessment of our source water. For results of the assessment, please contact us or view on-line at: <http://www.kdheks.gov/nps/swap/SWreports.html>

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer under going 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) included 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 we treat it include:
Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife.
Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water 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 storm water run-off, agriculture, and residential users.
Radioactive contaminants, which can be naturally occurring or the result of mining activity.

Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our 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.

Our water system tested a minimum of 8 samples per month in accordance with the Total Coliform Rule for microbiological contaminants. 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.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2008 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2008. 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 "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.

Maximum Contaminant Level (MCL): 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.

Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.

Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.

Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking water.

Maximum Residual Disinfectant Level (MRDL): the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Non-Detects (ND): lab analysis indicates that the contaminant is not present.

Parts per Million (ppm) or milligrams per liter (mg/l)

Parts per Billion (ppb) or micrograms per liter (µg/l)

Picocuries per Liter (pCi/L): a measure of the radioactivity in water.

Millirems per Year (mrem/yr): measure of radiation absorbed by the body.

Million Fibers per Liter (MFL): a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.

Testing Results for: LAN DEL WATER DISTRICT

Lead and Copper	Monitoring Period	90 th Percentile	95 th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER	2008 - 2010	0.19	0.3	0.0012 - 0.8	ppm	1.3	0	Corrosion of household plumbing
LEAD	2008 - 2010	1.6	1.9	1.1 - 2.6	ppb	15	0	Corrosion of household plumbing

During the 2008 calendar year, we had no violation(s) of drinking water regulations.

Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2008 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ARSENIC	3/18/2008	LEAVENWORTH WATER DEPARTMENT	1.1	1.1	ppb	10	0	Erosion of natural deposits
ATRAZINE	6/10/2008	LEAVENWORTH WATER DEPARTMENT	1.8	1.8	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.16	0.16	ppm	2	2	Discharge from metal refineries
FLUORIDE	3/18/2008	LEAVENWORTH WATER DEPARTMENT	1.3	0.83 - 1.3	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
NITRATE	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	1.6	1.6	ppm	10	10	Runoff from fertilizer use
TURBIDITY	3/18/2008	LEAVENWORTH WATER DEPARTMENT	0.17	0.15 - 0.17	NTU	1		Soil runoff

Secondary Contaminants	Collection Date	Water System	Highest Value	Range	Unit	SMCL
ALKALINITY, BICARBONATE	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	186	186	MG/L	
ALKALINITY, TOTAL	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	153	153	MG/L	300
ALUMINUM	3/18/2008	LEAVENWORTH WATER DEPARTMENT	0.39	0.23 - 0.39	MG/L	0.05
CALCIUM	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	66	66	MG/L	200
CARBON, TOTAL	3/1/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	3.7	2 - 3.7	ppm	
CHLORIDE	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	32	32	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	715	715	UMHO/CM	1500
CORROSIVITY	3/18/2008	LEAVENWORTH WATER DEPARTMENT	0.55	0.55	LANG	0
HARDNESS, TOTAL (AS CAC03)	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	251	251	MG/L	400
IRON	3/18/2008	LEAVENWORTH WATER DEPARTMENT	0.032	0.032	MG/L	0.3
MAGNESIUM	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	21	21	MG/L	150
METOLACHLOR	6/10/2008	LEAVENWORTH WATER DEPARTMENT	1.2	1.2	ppb	
ORTHOPHOSPHATE	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.25	0.25	MG/L	

PH	3/18/2008	LEAVENWORTH WATER DEPARTMENT	9.3	7.3 - 9.3	PH	8.5
PHOSPHATE, TOTAL	4/26/2005	KANSAS CITY BOARD OF PUBLIC UTILITIES	1.04	1.04	MG/L	
PHOSPHORUS, TOTAL	3/18/2008	LEAVENWORTH WATER DEPARTMENT	0.15	0.14 - 0.15	MG/L	5
POTASSIUM	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	5.8	5.8	MG/L	100
SILICA	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	17	17	MG/L	50
SILVER	4/26/2006	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.0011	0.0011	MG/L	0.1
SODIUM	3/18/2008	LEAVENWORTH WATER DEPARTMENT	41	41	MG/L	100
SULFATE	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	120	120	MG/L	250
TDS	5/8/2008	KANSAS CITY BOARD OF PUBLIC UTILITIES	442	442	MG/L	500

During the 2008 calendar year, the water systems that we purchase water from had no violation(s) of drinking water regulations.

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 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>.