City of Clearwater
Consumer Confidence Report – 2012
Covering Calendar Year – 2011

Kansas Department of Health and Environment

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 to improve their water systems.
For more information please contact, Ernie Misak at 620-584-2311.

Your water comes from 5 Ground Water Wells.

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 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) 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 sources 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 is required to test a minimum of 2 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 2011 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, 2011. 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
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.
Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

Testing Results for: City of Clearwater

Microbiological	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2011				

Regulated Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ARSENIC	1/29/2009	2.6	1.6 - 2.6	ppb	10	0	Erosion of natural deposits
ATRAZINE	7/13/2009	0.13	0.13	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	1/29/2009	0.16	0.077 - 0.16	ppm	2	2	Discharge from metal refineries
CHROMIUM	1/29/2009	2.2	1.2 - 2.2	ppb	100	100	Discharge from steel and pulp mills
FLUORIDE	3/15/2011	1.3	0.38 - 1.3	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
NITRATE	4/27/2011	8.4	2.8 - 8.4	ppm	10	10	Runoff from fertilizer use
SELENIUM	1/29/2009	8.2	2.6 - 8.2	ppb	50	50	Erosion of natural deposits

Disinfection Byproducts	Monitoring Period	Your Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2011							

Lead and Copper	Monitoring Period	90th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2008 - 2010	1.2	0.12 - 1.3	ppm	1.3	0	Corrosion of household plumbing
LEAD	2008 - 2010	1.5	1.1 - 1.7	ppb	15	0	Corrosion of household plumbing

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.

Radiological Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
GROSS ALPHA, INCL. RADON & U	12/13/2010	3	3	PCI/L	15	0	Erosion of natural deposits

Secondary Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	1/29/2009	274	130 - 274	MG/L	300
CALCIUM	1/29/2009	88	38 - 88	MG/L	200
CHLORIDE	1/29/2009	86	11 - 86	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	1/29/2009	960	330 - 960	UMHO/CM	1500
CORROSIVITY	8/28/2007	0.73	0.73	LANG	0
HARDNESS, TOTAL (AS CAC03)	1/29/2009	350	120 - 350	MG/L	400
IRON	1/29/2009	0.031	0.015 - 0.031	MG/L	0.3
MAGNESIUM	1/29/2009	33	7.3 - 33	MG/L	150
NICKEL	1/29/2009	0.0029	0.0011 - 0.0029	MG/L	0.1
PH	1/29/2009	7.2	6.8 - 7.2	PH	8.5
PHOSPHORUS, TOTAL	1/29/2009	0.47	0.12 - 0.47	MG/L	5
POTASSIUM	1/29/2009	3	1.6 - 3	MG/L	100
SILICA	1/29/2009	34	25 - 34	MG/L	50
SODIUM	1/29/2009	68	19 - 68	MG/L	100
SULFATE	1/29/2009	69	13 - 69	MG/L	250
TDS	1/29/2009	580	210 - 580	MG/L	500
ZINC	1/29/2009	0.036	0.023 - 0.036	MG/L	5

During the 2011 calendar year, we had no violation(s) of drinking water regulations.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.