



# City of Ottawa

## Annual Water Quality Report – 2006

### Covers Calendar Year 2005

This brochure is a snapshot of the quality of the water that we provided last year. Included are 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's important that customers be aware of the efforts that are made continually to improve their water system. The Ottawa City Commission, the governing body of our Water Department, currently meets on the first Wednesday of each month at 7:00 p.m. and the third Wednesday of each month at 9:30 a.m. These meetings are held in the Commission Chambers of City Hall. Should you wish to have input to our water system process, this is one avenue to pursue. For more information please contact Ron Snethen (Water Plant Superintendent) at 785-229-3690.

Your water comes from the Marais des Cygnes River, which is within the Marais des Cygnes River Basin that includes Pomona and Melvern Reservoirs. To ensure an adequate supply of water even in drought situations Ottawa is also a member of the Marais des Cygnes River Assurance District. The City has an additional safeguard in two holding ponds. These ponds hold a total of 35 million gallons of water that can be used during high runoff periods and in the event the river ever becomes temporarily contaminated.



We treat your water to remove several contaminants and we also add disinfectant to protect you against microbial contaminants. An assessment of our source water has been completed. For results of the assessment, please contact us or download the results at <http://www.kdheks.gov/nps/swap/SWreports.html>.

#### A MESSAGE FROM EPA

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

The sources of drinking water (both tap 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 we treat it 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 discharge, 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.

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. 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.

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 test 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 2005, we collected ten samples per month, and all were in compliance.

#### WATER QUALITY DATA

Unless noted, the data presented in this table is from testing done January 1– December 31, 2005. The presence of the contaminants in the water does not necessarily indicate that the water poses a health risk. 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, may be more than one year old.



**The bottom line is that the water provided to you is safe.**

## 2005 Test Results For CITY of OTTAWA

REGULATED CONTAMINANTS	COLLECTION			UNIT	MCL	MCLG	Violation	Typical Source
	DATE	RESULT	RANGE					
Atrazine	2005	0.73-YRA	0.4 – 1.6	ppb	3	3	N	Runoff of herbicides from row crops
Barium	03/05	0.037	0.037	ppm	2	2	N	Discharge from metal refineries
Fluoride	03/05	1.4	0.71 – 1.4	ppm	4	4	N	Additive which promotes strong teeth
Nitrate (N)	03/05	0.13	0.11-0.13	ppm	10	10	N	Erosion of natural deposits
T. Trihalomethanes	2005	55.3 YRA	38 -85	ppb	80	N/A	N	By-product of drinking water chlorination
Haloacetic Acids	2005	41.4 YRA	32.25– 48.5	ppb	60	N/A	N	By-product of drinking water disinfection
Total organic carbon (TOC)	2005	1.49-YRA	0.08 – 2.22	ppm	TT Removal Ratio >1*		N	Naturally present in the environment
Turbidity	2005	< 0.3 NTUs in 100% of samples		NTUs	95% of samples per month below 0.3		N	Soil runoff

YRA-YEARLY RUNNING AVERAGE

90th PERCENTILE	DATE	RESULT	RANGE	Sites over AL		Violation	Typical Source	
Lead	2005	1.6	ND - 24	ppb	AL=15	0	N	Corrosion of household plumbing system.
Copper	2005	0.057	.0046 –0.16	ppm	AL=1.3	0	N	Corrosion of household plumbing system.

SECONDARY CONTAMINANTS	DATE	RESULT	RANGE	UNIT	SMCL	Violation	Typical Source
Aluminum	03/05	0.15		ppm	0.05	N	Erosion of natural deposits
Calcium	03/05	38		ppm	200	N	Erosion of natural deposits
Magnesium	03/05	8.6		ppm	150	N	Erosion of natural deposits
Manganese	03/05	0.0012		ppm	0.05	N	Erosion of natural deposits
Sodium	03/05	12		ppm	100	N	Erosion of natural deposits
Potassium	03/05	3.1		ppm	100	N	Erosion of natural deposits
Chloride	03/05	10		ppm	250	N	Erosion of natural deposits
Sulfate	03/05	53		ppm	250	N	Erosion of natural deposits
Total Hardness	03/05	130		ppm	400	N	Erosion of natural deposits
Alkalinity as CaCO <sub>3</sub>	03/05	88		ppm	300	N	Erosion of natural deposits
pH	03/05	7.9		pH units	8.5	N	Erosion of natural deposits
Specific Conductivity	03/05	340		umho/l	1500	N	Erosion of natural deposits
Tot. Dissolved Solids	03/05	180		ppm	500	N	Erosion of natural deposits
Silica	03/05	3.5		ppm	50	N	Erosion of natural deposits
Corrosivity	03/05	-0.22		LI	0	N	Erosion of natural deposits
Nickel	03/05	0.0019		ppm	0.1	N	Erosion of natural deposits

\* (Footnote) The monthly TOC removal ratio is calculated as the ratio between the actual TOC removal and the TOC rule removal requirements. The ratio shown is the average of the ratios for the 12 months in 2005.

### 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 a contaminant that is allowed in drinking water. MCLs are set close to the MCLGs allow for a margin of safety.

**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, which, when exceeded, triggers treatment or other requirement, which a water system must follow.

**N/A:** not applicable

**N/D:** non detect at testing limit

**ppb:** parts per billion

**ppm:** parts per million or milligrams per liter