

ADDITIONAL HEALTH INFORMATION

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 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 EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 the 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 at 1-800-426-4791.

FOR CUSTOMERS WITH  
SPECIAL HEALTH CONCERNS

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 microbiological contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

HOW TO REACH US

If you have any questions about this report or concerning your water utility, please contact Cathy Cabezas, City of Fellsmere at (772) 571-0127 or visit our website at [www.cityoffellsmere.org](http://www.cityoffellsmere.org). The City of Fellsmere's office is open from 8:30 am until noon and 1:00 pm until 5:00 pm, Monday through Friday. We want our valued customers to be informed about their water utility.

SOURCE WATER ASSESSMENT PLAN

The Department of Environmental Protection (DEP) has performed a Source Water Assessment on our system and a search of the data sources indicated no potential sources of contamination near our wells. The assessment results are available on the DEP Source Water Assessment and Protection Program website at [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp).

CITY OF FELLSMERE

2005 ANNUAL DRINKING  
WATER QUALITY REPORT

*Este informe contiene información muy importante sobre su agua beber. Tradúscalo ó hable con un amigo quien lo entienda bien.*

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water. If you have any questions or concerns about the information provided in this report, please feel free to call any of the numbers listed.

WHERE YOUR WATER COMES FROM

The water source for the City of Fellsmere is ground water which is withdrawn from four wells in the Floridan Aquifer. The water is disinfected to destroy microbes prior to delivery to customers.

HOW WE ENSURE YOUR DRINKING WATER IS SAFE

The City of Fellsmere routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2005. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data are more than one year old but are based on the most recent water analyses performed and are representative of the water quality.

HOW TO READ THE TABLE

The terms used in the water quality summary table and in other parts of this report are defined below.

**Action level (AL)** – the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Maximum contaminant level or MCL** – 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.

**Maximum contaminant level goal or 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 residual disinfectant level or 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.

**Maximum residual disinfectant level goal or MRDLG** – the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**N/A** – not applicable

**ppm** – parts per million or milligrams per liter is one part by weight of analyte to one million parts by weight of the water sample.

**ppb** – parts per billion or micrograms per liter is one part by weight of analyte to one billion parts by weight of the water sample.

**pCi/l** – picocuries per liter is a measure of the radioactivity in water

2005 WATER QUALITY SUMMARY TABLE – PWS ID NO. 3314280							
Contaminant and Unit of Measurement	Dates of sampling (mo./yr.)	MCL/AL Violation Y/N	Level Detected <sup>A</sup>	Range of Results <sup>A</sup>	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
<b>Radiological Contaminants</b>							
Alpha emitters (pCi/l)	10/2003	N	1.4	N/A	0	15	Erosion of natural deposits
<b>Inorganic Contaminants</b>							
Barium (ppm)	10/2003	N	0.008	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium (ppb)	10/2003	N	30	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Nickel (ppb)	10/2003	N	3	N/A	N/A	100	Pollution from mining and refining operations; natural occurrence in soil
Nitrate (as Nitrogen) (ppm)	11/2005	N	0.096	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	10/2003	N	5	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	10/2003	N	20.9	N/A	N/A	160	Salt water intrusion, leaching from soil
<b>TTHMs and Stage I Disinfectant/Disinfection By-Product (D/DBP) Parameters</b>							
Chlorine (ppm)	1/2005 – 12/2005	N	1.2	0.2 – 2.4	4	4.0	Water additive used to control microbes
HAA5s (Haloacetic acids) (five) (ppb) <sup>B, C</sup>	6/05, 9/05, 11/05, 12/05	Y <sup>D</sup>	89.2	21.4 - 138	N/A	60	By-product of drinking water disinfection
TTHMs (Total trihalomethanes) (ppb) <sup>C</sup>	2/05, 3/05, 6/05, 9/05, 11/05, 12/05	Y <sup>D</sup>	112.6	14 - 205	N/A	80	By-product of drinking water disinfection
<b>Lead and Copper (Tap Water)</b>							
Copper (tap water) (ppm)	9/2003	N	0.241	0 samples > AL	1.3	AL = 1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead (tap water) (ppb)	9/2003	N	5	0 samples > AL	0	AL = 15	Corrosion of household plumbing system, erosion of natural deposits

TABLE NOTES:

- A. Results in the level detected column for radiological and inorganic contaminants are the highest detected level at any sampling point. The result in the level detected column for chlorine is the annual average of the sample results and the results in the level detected column for total trihalomethanes (TTHMs) and haloacetice acids (HAA5s) is the highest running annual average of the quarterly averages. Results in the level detected column for lead and copper are the 90<sup>th</sup> percentile of all sample results. The range of results for chlorine is the range of results (lowest to highest) at the individual sampling sites. The range of results for lead and copper is the number of samples during the sampling period that were above the action level.
- B. Last year the City of Fellsmere had a sampling violation for HAA5s from 1/1/05 to 3/31/05 due to missing the first quarterly sampling and reporting date. We are unable to tell you whether your health was at risk during this time because the HAA5 sample was not taken to determine the level of contaminants in the water. HAA5 sampling resumed during the second quarter of 2005 and continued quarterly for the rest of the year.
- C. Last year we had a sampling violation from 4/1/05 to 6/30/05 for both TTHMs and HAA5s. The TTHMs and HAA5s samples were taken on time during the second quarter of 2005 but these results were submitted to the DEP after the required deadline. The City of Fellsmere will strive to submit all future sample results on time.
- D. We routinely monitor for various contaminants in the water supply to meet all regulatory requirements. Our water system was in violation of federal and state water quality standards for TTHMs and HAA5s from 7/1/05 through 12/31/05. The levels of TTHMs and HAA5s are shown in the above table. The running annual average of TTHMs and HAA5s samples for the third and fourth quarter of 2005 was above the MCL. TTHMs and HAA5s are by-products of the water disinfection process when chlorine is used. Some people who drink water containing TTHMs over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. Some people who drink water containing HAA5s in excess of the MCL over many years may have an increased risk of getting cancer. The City of Fellsmere is working with the Department of Environmental Protection to take the necessary corrective action to address these MCL violations. These actions include an enhanced water system flushing program as well as monthly sampling and testing. We are also moving forward with construction plans to change the drinking water disinfection process to bring the TTHMs and HAA5s into compliance. Please be assured that while these violations do not pose an immediate health risk, the City is taking this matter very seriously and doing everything possible to correct this issue.