**2011 WATER QUALITY REPORT**

**Georgia Water System ID No.: 0390001**

Name of Water System Contact
Wayne Broxton
911 Dispatcher

**Contact Phone Number**
912-882-4415
912-729-1442

---

The City of St. Marys drinking water system is owned and operated by the City of St. Marys. The facility office is located at 418 Osborne Street in St. Marys, Georgia. If there are ever any comments or inquiries to be made, please feel free to contact Wayne Broxton at the number listed above, Monday through Friday, 7:00 AM to 3:30 PM.

Included in this report is information about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. The City of St. Marys is committed to providing your community with clean, safe, and reliable drinking water. For more information about your water or this report please call Wayne Broxton. This report is available upon request at City Hall.

Your water comes from three (3) community ground water wells which have a combined service capacity of approximately 6.0 million gallons per day. The water source for all wells is 800 to 1100 feet deep into what is commonly called the Upper Floridian Aquifer. This water source provides ample volumes of water for your community. These wells are located in the City of St. Marys on North Dandy Street, Old Jefferson Road or Douglas Drive and on Colerain Road at Mission Trace. From May 2011 the Mission Trace Well was out of service because it was pumping sand. A new well was drilled at or near the same location in June 2011. These properties are protected from activities which could potentially cause contamination of this water source. Treatment is performed at the wells to include removal of contaminants, chlorine disinfection, and the addition of fluoride.

A Wellhead Protection Plan has been completed for the City. This is a report in which the Georgia Department of Natural Resources Environmental Protection Division identifies any types of pollution to which your water supply could be vulnerable and includes information regarding potential sources of contamination in your watershed. This system is considered to be in the higher susceptibility range for pollution. The current plan indicates no potential pollution sources present in the fifteen (15) foot control zone for either well. Cited potential pollution sources in the 100 foot management zone for the wells include electrical transformers and utility poles as well as access and secondary roads. This report is available upon request at City Hall.

The City of St. Marys conducts laboratory tests for more than eighty (80) drinking water parameters on samples from each of its wells on a periodic basis determined by the Georgia Department of Natural Resources Environmental Protection Division Drinking Water Program and/or the United States Environmental Protection Agency. Generally, samples are collected for analysis of inorganic compounds, volatile organic compounds, radionuclides, and lead and copper once in every three (3) year period whereas nitrates and synthetic organic compounds are sampled once a year. Thirty-one (31) sites have been designated throughout the community from which fifteen (15) samples are also collected on a monthly basis for bacteriological or microbial content. A waiver may be issued for synthetic organic compounds, cyanide and/or asbestos. The City of St. Marys has received drinking water monitoring waivers for Synthetic Organic Compounds until December 31, 2013 and a waiver for Cyanide and Asbestos through December 31, 2013, because studies show that distributed drinking water in this area is not vulnerable to contamination from these chemicals. Daily monitoring of chlorine, fluoride and flow are conducted by City personnel.

During 2011, the parameters for which analyses were conducted included monthly analysis for microbial contaminants, annual analysis for nitrates and nitrites, and analysis for inorganic and volatile organic compounds. **We are proud to inform you that the City of St. Marys did not have any violations of water quality parameters during 2011.**

All detected contaminants are delineated in the accompanying charts. Any constituents not listed in the accompanying charts had results less than the detection limits and/or maximum contaminant levels.

Thirty (30) representative locations have been selected throughout your community where Lead and Copper analyses are conducted on a periodic basis. Analysis for the presence of Lead and Copper indicate the presence of service lines containing these materials in some single family residences, multi-family residences and/or commercial locations. Results indicated NO residences selected contained these components which exceeded the action levels for these parameters.

Lead and Copper may be found in household plumbing fixtures such as service lines, pipes, soldered joints, and faucets as well as brass fixtures. Lead is found throughout the environment in the air, soil, water and household waste as well as in consumer products such as lead based paint, pottery and pewter. Lead & Copper enter drinking water as a result of the corrosion or wearing away of materials containing these metals. Lead can pose a significant risk to your health if too much of it enters your body.

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. The City of St. Marys 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 at 800-426-4791.

To minimize exposure to Lead and/or Copper, the following measures may be taken:

- When your water has been sitting for several hours, minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.
- Use cold water for drinking or cooking.
- Do not cook with or consume water from the hot water faucet.
- Do not use hot water for making baby formula.
- Use only “lead-free” solder, fluxes and materials in new household plumbing.

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. The EPA has established Maximum Contaminant Levels (MCL’s) and Maximum Contaminant Level Goals (MCLG’s) for potential contaminants. MCL’s are the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology. MCLG’s are the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG’s allow for a margin of safety. More information about contaminants and potential health effects can be obtained by calling the EPA’s Safe Drinking Water Hotline at 800-426-4791.

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 at 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 include the following:

- **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 storm 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, urban storm water runoff, and residential uses.
- **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 storm water runoff, and septic systems.
- **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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The City of St. Marys strives to maintain the highest standards of performance and quality possible. In order to maintain a safe and dependable water supply, improvements that benefit the community must be made. Please help keep these costs as low as possible by utilizing good water conservation practices.

**DEFINITION OF TERMS AND ABBREVIATIONS USED IN THIS REPORT**

**Maximum Contaminant Level (MCL):** “The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG as feasible using the best available treatment technology.”

**Maximum Contaminant Level Goal (MCLG):** “The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG’s allow for a margin of safety.”

**Action Level (AL):** “The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.”

**Secondary Maximum Contaminant Level (SMCL):** reasonable goals for drinking water quality. Exceeding SMCL’s may adversely affect odor or appearance, but there is no known risk to human health.

**Treatment Technique (TT):** “A required process intended to reduce the level 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 microbiological contaminants.”

**Not Detected (ND):** By regulation, this substance or group of substances was tested for in our finished tap water; however, none was detected at the testing limit.

**TTHMs (Total Trihalomethanes):** One or more of the organic compounds Chloroform, Bromodichloromethane, Chlorodibromomethane, and/or Bromoform.

**n/a:** Not applicable to this contaminant.

**ppb or ug/l:** parts per billion or micrograms per liter.

**ppm or mg/l:** parts per million or milligrams per liter.

**pCi/l:** picocuries per liter, a measurement of radiation.

The table below lists all the drinking water contaminants that have been detected in your drinking water. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The data presented in this table is from testing done during the year noted. The Federal Environmental Protection Agency (EPA) and the Georgia Department of Natural Resources Environmental Protection Division (EPD) require monitoring for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year.