

# 2009 WATER QUALITY REPORT FOR George Water Dept.

This report contains important information regarding the water quality in our water system. The source of our water is groundwater. Our groundwater is drawn from the 2 wells in the alluvial aquifer(s). Our surface water is drawn from n/a.

Our water quality testing shows the following results:

CONTAMINANT	MCLG	MCL	DETECTED LEVEL	DATE SAMPLED	RANGE OF DETECTION	VIOLATION	SOURCE
Lead (ppb)	0	AL=15	0	9/17/08	0-4	No	Corrosion of household plumbing systems; erosion of natural deposits
Chlorine (ppm)	MRDLG=4.0	MRDL=4.0	1.0	1/1/08-12/31/08	0.7-1.66	No	Water additive used to control microbes
Copper (ppm)	1.3	AL=1.3	0.81	9/17/08	0.21-1.425	No	Corrosion of household plumbing systems; Erosion of natural deposits
Total Coliform Bacteria	0	Presence of coliform bacteria in >5% of monthly samples	0	12/1/08-12/31/08	0	Yes, Lab failed to notify us to resample a time lapsed sample	Naturally present in the environment
TTHM (ppb) [Total trihalomethanes]	N/A	80	24	8/22/07	n/a	No	By-products of drinking water disinfection
Barium (ppm)	2	2	0.1	5/13/08	n/a	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	4	4	0.3	5/13/08	n/a	No	Water additive which promotes strong teeth; Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Sodium (ppm)	N/A	N/A	19	5/13/08	n/a	No	Erosion of natural deposits; Added to water during treatment process
Nitrate [as N] (ppm)	10	10	9.2	1/1/08-12/31/08	6.7-9.2	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Note: Contaminants with dates indicate results from the most recent testing done in accordance with regulations.

## DEFINITIONS

- Maximum Contaminant Level (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 (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.
- ppb -- parts per billion.
- ppm -- parts per million.
- pCi/L – picocuries per liter
- N/A – Not applicable
- ND -- Not detected
- Treatment Technique (TT) – A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- RAA—Running Annual Average

- Maximum Residual Disinfectant Level Goal (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.
- 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.

## **GENERAL INFORMATION**

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 posed a health risk. More information about contaminants or potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (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 (800-426-4791).

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. George Water Dept. 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>.

## **CONTAMINANT VIOLATIONS**

None

## **ADDITIONAL HEALTH INFORMATION**

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 advice from your health care provider.

## **OTHER VIOLATIONS**

In December 2008, we failed to monitor for Total Coliform. Our sample was sent to our laboratory, but they failed to notify us that we needed to resample due to a time lapse. Adverse health effects, if any, are not known. Monitoring procedures have been corrected to avoid future violations.

## **SOURCE WATER ASSESSMENT INFORMATION**

The George water supply obtains its water from the alluvial aquifer. The alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials allow contaminants to move through the aquifer fairly quickly. The wells will be most susceptible to activities such as dry cleaners, gas stations, industrial sites, and municipal wastewater dischargers. A detailed evaluation of your source water was completed by the IDNR, and is available from City of George at 712-475-3612.

## **OTHER INFORMATION**

Our water utility is making every effort to protect the water system from potential security threats. You, as customers, can also help. If you see any suspicious activity near the water tower, treatment plant, wells or fire hydrants, please contact us at 712-475-3612 or the local police/sheriff department. We appreciate your assistance in protecting the water system. "Please note: This report will not be mailed to individual customers."

## **CONTACT INFORMATION**

For questions regarding this information, please contact Todd Klein at 712-475-3891 during the following hours: 8:00AM—4:00PM or the City Clerk at 712-475-3612.

Decisions regarding the water system are made at the City Council meetings held on 2<sup>nd</sup> Wednesday of every month at 7:00 p.m. at 120 South Main and are open to the public.