ANNUAL WATER QUALITY REPORT

Water Testing Performed in 2014

Presented By

LaGRANGE, Georgia
SMART MOVE

PWS ID#: 2850001
Our Mission

We are proud to present our annual water quality report covering all testing performed between January 1 and December 31, 2014. Last year marked the 40th anniversary of the Safe Drinking Water Act (SDWA). This law was created to protect public health by regulating the treatment and testing of our nation's drinking water supply. Sending this informative annual report to you is one of the many requirements outlined in the SDWA. Please contact us if you ever have any questions or concerns about your drinking water.

Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) 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 or http://water.epa.gov/drink/hotline.

Lead Use in Your Home’s 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. We are responsible for providing high-quality drinking water, but we 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 www.epa.gov/safewater/lead.

Substances That Could Be in Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of these contaminants does not necessarily indicate that the water poses a health risk. To ensure that tap water is safe to drink, the federal Environmental Protection Agency (EPA) prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. Bottled water is regulated by the Food and Drug Administration.

The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land and through the ground, it dissolves naturally occurring minerals, radioactive materials, and other substances associated with the presence of animals or human activity. Substances that may be present in untreated source water include: Microbial Contaminants, such as viruses and bacteria, which originate from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; Inorganic Contaminants, such as salts and metals, which can be naturally occurring or produced by urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; Pesticides and Herbicides, which come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and may also come from gas stations, urban stormwater runoff, and septic systems; Radioactive Contaminants, which can be naturally occurring or may be the result of oil and gas production and mining activities.

For more information about contaminants and potential health effects, call the U.S. EPA’s Safe Drinking Water Hotline at (800) 426-4791.

Source Water Assessment

A source water assessment has been conducted on the City of LaGrange watershed as required by the Safe Drinking Water Act. The purpose of the assessment is to identify potential sources of contamination and the possible risk that is imposed on our water supply. Our overall susceptibility to source water contamination was determined through this analysis to be LOW. A copy of the report can be obtained from the City upon request.
What Causes the Pink Stain on Bathroom Fixtures?

The reddish-pink color frequently noted in bathrooms on shower stalls, tubs, tile, toilets, sinks, toothbrush holders, and on pets’ water bowls is caused by the growth of the bacterium Serratia marcescens. Serratia is commonly isolated from soil, water, plants, insects, and vertebrates (including man). The bacteria can be introduced into the house through any of the above-mentioned sources. The bathroom provides a perfect environment (moist and warm) for bacteria to thrive.

The best solution to this problem is to continually clean and dry the involved surfaces to keep them free from bacteria. Chlorine-based compounds work best, but keep in mind that abrasive cleaners may scratch fixtures, making them more susceptible to bacterial growth. Chlorine bleach can be used periodically to disinfect the toilet and help to eliminate the occurrence of the pink residue. Keeping bathtubs and sinks wiped down using a solution that contains chlorine will also help to minimize its occurrence. Serratia will not survive in chlorinated drinking water.

Cryptosporidium

Cryptosporidium is a microbial parasite that is sometimes found in surface water throughout the United States. Although our treatment process removes the vast majority of Cryptosporidium spores that might be present in our source water, we cannot guarantee 100% removal. However, we are pleased to report that water samples we collected from West Point Lake in the last year did not detect the presence of Cryptosporidium.

Water Main Flushing

Distribution mains (pipes) convey water to homes, businesses, and hydrants in your neighborhood. The water entering distribution mains is of very high quality; however, water quality can deteriorate in areas of the distribution mains over time. Water main flushing is the process of cleaning the interior of water distribution mains by sending a rapid flow of water through the mains.

Flushing maintains water quality in several ways. For example, flushing removes sediments like iron and manganese. Although iron and manganese do not themselves pose health concerns, they can affect the taste, clarity, and color of the water. Additionally, sediments can shield microorganisms from the disinfecting power of chlorine, contributing to the growth of microorganisms within distribution mains. Flushing helps remove stale water and ensures the presence of fresh water with sufficient dissolved oxygen and disinfectant levels, and an acceptable taste and smell.

During flushing operations in your neighborhood, some short-term deterioration of water quality, though uncommon, is possible. You should avoid tap water for household uses at such times. If you do use the tap, allow your cold water to run for a few minutes at full velocity before use, and avoid using hot water, to prevent sediment accumulation in your hot water tank.

Please contact us if you have any questions or if you would like more information on our water main flushing schedule.

Tap vs. Bottled

Thanks in part to aggressive marketing, the bottled water industry has successfully convinced us all that water purchased in bottles is a healthier alternative to tap water. However, according to a four-year study conducted by the Natural Resources Defense Council, bottled water is not necessarily cleaner or safer than most tap water. In fact, about 25 percent of bottled water is actually just bottled tap water (40 percent, according to government estimates).

The Food and Drug Administration is responsible for regulating bottled water, but these rules allow for less rigorous testing and purity standards than those required by the U.S. EPA for community tap water. For instance, the high mineral content of some bottled waters makes them unsuitable for babies and young children. Furthermore, the FDA completely exempts bottled water that’s packaged and sold within the same state, which accounts for about 70 percent of all bottled water sold in the United States.

People spend 10,000 times more per gallon for bottled water than they typically do for tap water. If you get your recommended eight glasses a day from bottled water, you could spend up to $1,400 annually. The same amount of tap water would cost about 49 cents.

For a detailed discussion on the NRDC study results, check out their Web site at www.nrdc.org/water/drinking/bw/exesum.asp.
When was drinking water first regulated?
The Safe Drinking Water Act (SDWA) of 1974 represents the first time that public drinking water supplies were protected on a federal (national) level in the U.S. Amendments were made to the SDWA in 1986 and 1996.

How much water do we use every day?
The average person in the U.S. uses 80 to 100 gallons of water each day. (During medieval times, a person used only 5 gallons per day.) It takes 2 gallons to brush your teeth, 2 to 7 gallons to flush a toilet, and 25 to 50 gallons to take a shower.

When was chlorine first used in the U.S.?
In 1908, Jersey City, New Jersey, and Chicago, Illinois, were the first water supplies to be chlorinated in the U.S.

Seventy-one percent of Earth is covered in water: how much is drinkable?
Oceans hold about 96.5 percent of all Earth’s water. Only three percent of the Earth’s water can be used as drinking water. Seventy-five percent of the world’s fresh water is frozen in the polar ice caps.

How much water is in our atmosphere?
Forty trillion gallons of water are carried in the atmosphere across the U.S. each day.

How much water is in our bodies?
Water makes up almost two-thirds of the human body and 70 percent of the brain. Four hundred gallons of water are recycled through our kidneys each day.

How long can a person go without water?
Although a person can live without food for more than a month, a person can live without water for only approximately one week.

Is tap water cheaper than soda?
Yes! You can refill an 8 oz. glass of tap water approximately 15,000 times for the same cost as a six-pack of soda pop. And water has no sugar or caffeine.
Sampling Results

During the past year, we have taken hundreds of water samples to test for the presence of radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The tables below show only those contaminants that were detected in the water. The state requires us to monitor for certain substances less often than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

We participated in the 3rd stage of the EPA's Unregulated Contaminant Monitoring Regulation (UCMR3) program by performing additional tests on our drinking water. UCMR3 benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality.

<table>
<thead>
<tr>
<th>REGULATED SUBSTANCES</th>
<th>YEAR SAMPLED</th>
<th>MCL [MRDL]</th>
<th>MCLG [MRDLG]</th>
<th>AMOUNT DETECTED</th>
<th>RANGE LOW-HIGH</th>
<th>VIOLATION</th>
<th>TYPICAL SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (ppm)</td>
<td>2014</td>
<td>[4]</td>
<td>[4]</td>
<td>1.19</td>
<td>1.02–2.06</td>
<td>No</td>
<td>Water additive used to control microbes</td>
</tr>
<tr>
<td>Chlorine Dioxide (ppb)</td>
<td>2014</td>
<td>[800]</td>
<td>[800]</td>
<td>190</td>
<td>80–430</td>
<td>No</td>
<td>Water additive used to control microbes</td>
</tr>
<tr>
<td>Chlorite (ppm)</td>
<td>2014</td>
<td>1</td>
<td>0.8</td>
<td>0.298</td>
<td>0.10–0.49</td>
<td>No</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>Fluoride (ppm)</td>
<td>2014</td>
<td>4</td>
<td>4</td>
<td>0.81</td>
<td>0.46–1.03</td>
<td>No</td>
<td>Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories</td>
</tr>
<tr>
<td>Haloacetic Acids [HAAs]–Stage 2 (ppb)</td>
<td>2014</td>
<td>60</td>
<td>NA</td>
<td>12.34</td>
<td>7.1–37</td>
<td>No</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>Nitrate (ppm)</td>
<td>2014</td>
<td>10</td>
<td>10</td>
<td>2.1</td>
<td>NA</td>
<td>No</td>
<td>Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits</td>
</tr>
<tr>
<td>TTHMs [Total Trihalomethanes]–Stage 2 (ppb)</td>
<td>2014</td>
<td>80</td>
<td>NA</td>
<td>29.74</td>
<td>13.8–58.8</td>
<td>No</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>Total Organic Carbon (ppm)</td>
<td>2014</td>
<td>TT</td>
<td>NA</td>
<td>1.4</td>
<td>0.95–2.3</td>
<td>No</td>
<td>Naturally present in the environment</td>
</tr>
<tr>
<td>Turbidity(^1) (NTU)</td>
<td>2014</td>
<td>TT</td>
<td>NA</td>
<td>0.30</td>
<td>0.03–0.30</td>
<td>No</td>
<td>Soil runoff</td>
</tr>
</tbody>
</table>

\(^1\) Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of the filtration system.

Tap water samples were collected for lead and copper analyses from sample sites throughout the community.

<table>
<thead>
<tr>
<th>SECONDARY SUBSTANCES</th>
<th>YEAR SAMPLED</th>
<th>SMCL</th>
<th>MCLG</th>
<th>AMOUNT DETECTED (90TH% TRL)</th>
<th>RANGE LOW-HIGH</th>
<th>VIOLATION</th>
<th>TYPICAL SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron (ppb)</td>
<td>2014</td>
<td>300</td>
<td>NA</td>
<td>10</td>
<td>10–20</td>
<td>No</td>
<td>Leaching from natural deposits; Industrial wastes</td>
</tr>
<tr>
<td>Manganese (ppb)</td>
<td>2014</td>
<td>50</td>
<td>NA</td>
<td>10</td>
<td>10–20</td>
<td>No</td>
<td>Leaching from natural deposits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNREGULATED SUBSTANCES</th>
<th>YEAR SAMPLED</th>
<th>AMOUNT DETECTED</th>
<th>RANGE LOW-HIGH</th>
<th>TYPICAL SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromodichloromethane (ppb)</td>
<td>2014</td>
<td>5.1</td>
<td>NA</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>Chlorodibromomethane (ppb)</td>
<td>2014</td>
<td>3.2</td>
<td>NA</td>
<td>By-product of drinking water disinfection</td>
</tr>
<tr>
<td>Chloroform (ppb)</td>
<td>2014</td>
<td>3.6</td>
<td>NA</td>
<td>By-product of drinking water disinfection</td>
</tr>
</tbody>
</table>
**Definitions**

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

**MCL (Maximum Contaminant Level):** 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.

**MCLG (Maximum Contaminant Level Goal):** 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.

**MRDL (Maximum Residual Disinfectant Level):** 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.

**MRDLG (Maximum Residual Disinfectant Level Goal):** 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.

**NA:** Not applicable

**NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

**ppb (parts per billion):** One part substance per billion parts water (or micrograms per liter).

**ppm (parts per million):** One part substance per million parts water (or milligrams per liter).

**SMCL (Secondary Maximum Contaminant Level):** SMCLs are established to regulate the aesthetics of drinking water like taste and odor.

**TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.