Substances That Could Be in Water

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration 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 these contaminants does not necessarily indicate that the water poses a health risk.

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 can acquire naturally occurring minerals, in some cases, radioactive material, and substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

Microbial Contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife;

Inorganic Contaminants, such as salts and metals, which can be naturally occurring or may result from urban stormwater 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 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 which 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.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact our business office. For more information about contaminants and potential health effects, call the U.S. EPA’s Safe Drinking Water Hotline at (800) 426-4791.
Sampling Results

During the past year, we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. The table below shows only those contaminants that were detected in the water. The state requires us to monitor for certain substances less 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.

<table>
<thead>
<tr>
<th>REGULATED SUBSTANCES</th>
<th>YEAR SAMPLED</th>
<th>mL / samples</th>
<th>MLCG (ppm)</th>
<th>AMOUNT DETECTED</th>
<th>RANGE LOW-HIGH</th>
<th>VIOLATION</th>
<th>TYPICAL SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al (Action Level)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atrazine (ppb)</td>
<td>2010</td>
<td>3</td>
<td>0.56</td>
<td>NA</td>
<td>No</td>
<td>Runoff from herbicide use on cropland</td>
<td></td>
</tr>
<tr>
<td>Chlorinated (ppb)</td>
<td>2010</td>
<td>1</td>
<td>0.5-1.7</td>
<td>No</td>
<td>Runoff from pesticide use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene (ppb)</td>
<td>2010</td>
<td>0.6</td>
<td>NA</td>
<td>No</td>
<td>Runoff from petroleum refinement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluoride (ppb)</td>
<td>2010</td>
<td>0.22</td>
<td>NA</td>
<td>No</td>
<td>Runoff from fertilizer and aluminum factory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haloacetic Acids (HAA)</td>
<td>2010</td>
<td>66</td>
<td>46.4</td>
<td>NA</td>
<td>No</td>
<td>By-product of drinking water chlorination</td>
<td></td>
</tr>
<tr>
<td>Nitrates (ppb)</td>
<td>2010</td>
<td>10</td>
<td>1.42</td>
<td>NA</td>
<td>No</td>
<td>Runoff from fertilizer use; Leaching from sewage sludge; Enhanced from natural deposits</td>
<td></td>
</tr>
<tr>
<td>NTM (Total Trichloroethene) (ppb)</td>
<td>2010</td>
<td>80</td>
<td>3.4-9.9</td>
<td>No</td>
<td>No</td>
<td>By-product of drinking water disinfection</td>
<td></td>
</tr>
<tr>
<td>Total Organic Carbon (ppb)</td>
<td>2010</td>
<td>10</td>
<td>NA</td>
<td>No</td>
<td>Runoff from sewage treatment plant; Enhanced from natural deposits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turbidity (NTU)</td>
<td>2010</td>
<td>0.20</td>
<td>NA</td>
<td>No</td>
<td>Self-radiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turbidity (NTU)</td>
<td>2010</td>
<td>0.10</td>
<td>NA</td>
<td>No</td>
<td>Self-radiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xenon (ppb)</td>
<td>2010</td>
<td>2.5</td>
<td>NA</td>
<td>No</td>
<td>Runoff from pesticide factory; Discharge from chemical factories</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<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>Copper (ppb)</td>
<td>2010</td>
<td>1.3</td>
<td>0.05-0.25</td>
<td>Corrosion of household plumbing system; Erosion of natural deposits</td>
</tr>
<tr>
<td>Lead (ppb)</td>
<td>2010</td>
<td>15</td>
<td>0.25</td>
<td>Corrosion of household plumbing system; Erosion of natural deposits</td>
</tr>
</tbody>
</table>

Why do I get this report each year?

Community water system operators are required by federal law to provide their customers with an annual water quality report. The report helps people make informed choices about the water they drink. It lets people know what contaminants, if any, are in their drinking water and how these contaminants may affect their health. It also gives the system operators a chance to tell customers what it takes to deliver safe drinking water.

Why does my water sometimes look "milky"?

The "milky" look is caused by tiny air bubbles in the water. The water in the pipes coming into your home or business may be under a bit of pressure, and gas (the air) is dissolved and trapped in the pressurized water as it flows into your glass. As the air bubbles rise in the glass, they break free at the surface, thus clearing up the water. Although the milky appearance might be disconcerting, the air bubbles won't affect the quality or taste of the water.

How can I keep my pet's water bowl germ free?

Veterinarians generally recommend that water bowls be washed daily with warm, soapy water—especially when you change the water. Scour the corners, nooks, and crannies of the water dish using a small scrub brush. In addition, once a week put water bowls into the dishwasher to sanitize them with hot water. In most situations, dishwashers like bleach are not needed; warm, soapy water is all you need to keep your pet's water clean and safe.

How much water is used during a typical shower?

The Federal Energy Policy Act set a nationwide regulation that limits showerheads to a maximum flow of 2.5 gallons per minute (gpm). Showerheads made before 1986 are rated at 3 gpm. Since the average shower is estimated to last 8 minutes, the old showerheads use 41 gallons of water while the newer, low-flow showerheads use only about 12.8 gallons.

Is it okay to use hot water from the tap for cooking and drinking?

No, always use cold water. Hot water is more likely to contain rust, copper, and lead from household plumbing and waste systems. These substances can dissolve into hot water faster than they do into cold water, especially when the faucet has not been used for an extended period of time.

How many contaminants are regulated in drinking water?

The U.S. EPA regulates over 80 contaminants in drinking water. Some states may choose to regulate additional contaminants or to set stricter standards, but all states must have standards at least as stringent as the U.S. EPA.

Water Conservation

You can play a role in conserving water and conserving your money in the process by becoming conscious of the amount of water your household is using and by looking for ways to use less whenever you can. It is not hard to conserve. Here are a few tips:

- Automatic dishwashers use 3 gallons for every cycle, regardless of how many dishes are loaded. Set the timer to go only when you have a full load.
- Turn off the tap when brushing your teeth.
- Check your faucets for leaks by putting a few drops of food coloring in the sink. Watch for a few minutes to see if the color shows up in the bowl. If it is not uncommon to leak up to 100 gallons a day from a dripping toilet. Fix it and you will save almost 6,000 gallons a year.
- Use your water meter to detect hidden leaks (if you are allowed access). Simply turn off all taps and water using appliances. Then check the meter after 15 minutes. If it moved, you have a leak.
Quality First

Once again we are proud to present our annual water quality report covering all testing performed between January 1 and December 31, 2010. As in years past, we are committed to delivering the best-quality drinking water possible. To that end, we remain vigilant in meeting the challenges of new regulations, source water protection, water conservation, and community outreach and education while continuing to serve the needs of all of our water users. Thank you for allowing us to continue providing you and your family with quality drinking water.

We encourage you to share your thoughts with us on the information contained in this report. Should you ever have any questions or concerns, we are always available to assist you.

Important Health Information

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

What’s Your Water Footprint?

You may have some understanding about your carbon footprint, but how much do you know about your water footprint? The water footprint of an individual, community, or business is the total volume of freshwater that is used to produce the goods and services that are consumed by the individual or community or produced by the business. For example, 11 gallons of water are needed to irrigate and wash the fruit in one half-gallon container of orange juice. Thirty-seven gallons of water are used to grow, produce, package, and ship the beans in that morning cup of coffee. Two hundred and sixty-four gallons of water are required to produce one quart of milk, and 4,200 gallons of water are required to produce two pounds of beef.

According to the U.S. EPA, the average American uses about 100 gallons of water daily. In fact, in the developed world, one flush of a toilet uses as much water as the average person in the developing world allocates for an entire day’s cooking, washing, cleaning, and drinking. The annual American per capita water footprint is about 8,000 cubic feet; twice the global per capita average. With water use increasing six-fold in the past century, our demands for freshwater are rapidly outstripping what the planet can replenish.

To check out your own water footprint, go to www.h2oconserve.org or visit www.waterfootprint.org to see how the water footprints of other nations compare.

Questions?

For more information about this report, or for any questions relating to your drinking water, please call Jimmy Moore, Water Department Superintendent, at (254) 582-3478 or by writing to PO Box 568, Hillsboro, TX 76645.

Community Participation

You can attend regularly scheduled City Council meetings on the first and third Tuesdays of each month at 7:00 p.m. in the old City Hall building, 217 East Franklin Street, Hillsboro.

Where Does My Water Come From?

Our water source is purchased pretreated water from Aquilla Water Supply District, whose source is Lake Aquilla, located approximately seven miles southwest of the city limits. A Source Water Susceptibility Assessment for our drinking water sources is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. The report will describe the susceptibility and types of constituents that may come into contact with your drinking water source, based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies.

Your water is treated with disinfection and filtration to remove or reduce harmful contaminants that may come from the water source.

Lead in Home 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. This water supply 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.