Non-Detects (ND) - laboratory analysis indicates that the component is not present.

- Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in $10,000.
- Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in $10,000,000.
- Parts per trillion (ppt) or Nanograms per liter (nanograms/l) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in $10,000,000,000.
- Parts per quadrillion (ppq) or Picograms per liter (picograms/l) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in $10,000,000,000,000.
- Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.
- Millirems per year (mrem/yr) - measure of radiation absorbed by the body.
- Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU, will appear as just enough cloudiness to be noticeable to the average person.
- Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.
- Maximum Contaminant Level - the "Maximum Allowed" (MCL) is 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 - the "Goal" (MCLG) is 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.
- MCL's are set at stringent levels - to understand the possible health effects described for many regulated components, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

We are pleased to present to you this year's Annual Quality Water Report. In accordance with the Safe Drinking Water Act, 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 are committed to ensuring the quality of your water, and want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

The City of Bandon uses water from two sources, Ferry Creek and Geiger Creek. During 2014 we treated approximately 220 million gallons of water.

Water treatment is the process of cleaning the water. The City of Bandon’s Clarifier and Ultra Violet Light disinfection project began in September, 2007 and was completed in April, 2008. This project has ensured the uninterrupted supply of safe drinking water to the public.
The City of Bandon tests its water for a total of 91 compounds. No contaminants were found, except insignificant amounts of a few items, as shown in the table below. As you can see, our system had no violations. We’re proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some components have been detected. The EPA has determined that your water IS SAFE at these levels. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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). 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).

### LEAD AND COPPER TESTING

Test results are from 2012. They are required every 3 years.

#### Substance

<table>
<thead>
<tr>
<th>Substance</th>
<th>Units</th>
<th>Goal</th>
<th>Action Level (AL)</th>
<th>90th Percentile</th>
<th>Homes Exceeding Action Level</th>
<th>Compiles</th>
<th>Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>ppm</td>
<td>1.3</td>
<td>1.3</td>
<td>.0483</td>
<td>0</td>
<td>Yes</td>
<td>Corrosion of Household Plumbing</td>
</tr>
<tr>
<td>Lead</td>
<td>ppb</td>
<td>15</td>
<td></td>
<td>.0011</td>
<td>0</td>
<td>Yes</td>
<td>Corrosion of Household Plumbing</td>
</tr>
</tbody>
</table>

### DISINFECTION BYPRODUCTS

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Violation Y/N</th>
<th>Level Detected</th>
<th>MCLG</th>
<th>MCL</th>
<th>Likely Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Organic Carbon (TOC)</td>
<td>N</td>
<td>Raw 4.65 ppm Final .56 ppm</td>
<td>TT</td>
<td>None</td>
<td>Naturally present in the environment</td>
</tr>
<tr>
<td>Total Trihalomethanes (THMs)</td>
<td>N</td>
<td>.032 ppm</td>
<td>100/80 ppb</td>
<td>None</td>
<td>By products of drinking water disinfection</td>
</tr>
<tr>
<td>Haloacetic Acids</td>
<td>N</td>
<td>.022 ppm</td>
<td>60 ppb</td>
<td>None</td>
<td>By products of drinking water disinfection</td>
</tr>
</tbody>
</table>

1 - Turbidity: Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

2 - Radioactive Contaminants: Alpha emitters. Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

3 - Copper: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level, over a relatively short amount of time, could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level, over many years, could suffer liver or kidney damage. People with Wilson’s Disease should consult their personal doctor.

4 - Lead: 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. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home’s plumbing. The City of Bandon is responsible for providing high quality drinking water, but cannot control the variety of 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 two 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 (1-800-426-4791) or at www.epa.gov/safewater/lead. Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person’s total lead exposure. Infants and young children are typically more vulnerable to lead in drinking water than the general population. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure. All potential sources of lead in the household should be identified and removed, replaced or reduced.

5 - The 90th percentile is the highest result found in 90% of the samples when they are listed in order from the lowest to the highest results. EPA requires testing for lead and copper at customers’ taps most likely to contain these substances based on when the house was built. The EPA determines that if the sample results exceeded the Action Level (AL), the City must take action in reducing the risk of leaching of lead and or copper. As you can see by the table above, your water was well below the action level on our last round of testing in 2012.

6 - Total Organic Carbon (TOC) has no health effects; however, TOC provides a medium for the formation of disinfection byproducts (DBPs). These byproducts include Trihalomethanes (THMs) and Haloacetic Acids (HAA5). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects; liver, kidney, or central nervous system problems, and may have an increased risk of cancer.

A source water assessment has been completed by the Department of Environmental Quality and is available at City Hall. The primary intent of this source water assessment is to provide the background information for the community to use in developing a local Drinking Water Protection Plan. The susceptibility of the public drinking water system depends on the natural conditions as well as the land use and facilities operating in the watershed. If you have any questions about this report, or concerning your water utility, please contact Bill Nielson, Water Treatment Plant Operator, at 541-347-3007 or Christopher Good, City Manager, at 541-347-2437 Ext. 229 or via email at citymanager@ci.bandon.or.us. We want our valued customers to be informed about their water utility. To learn more, please attend any of our regularly scheduled City Council meetings. They are held on the first Monday of every month at 7:00 PM in the City Council Chambers at City Hall.