The City of North Bend is pleased to provide you with its annual water quality report for the year 2019. The City strives to provide you with a safe and dependable supply of drinking water. We work diligently to provide top quality water to more than 5,000 consumers (about 2,800 connections) each day. We are pleased to report that our drinking water is safe and in compliance with all State & Federal Health Standards. This report is a requirement of the United States Environmental Protection Agency and the Washington State Department of Health and explains the condition and quality of your drinking water.

The City of North Bend Has Two Water Sources

- Mt Si Spring – lying at the base of Mt Si, the spring has been the primary source of water for the City of North Bend
- Centennial Well – located on City property in downtown North Bend, adjacent to the Public Works Shop

In addition to the water sources, the City maintains three reservoirs, the Nintendo Reservoir, a 2 million gallon capacity reservoir; the I-90 Reservoir, at .5 million capacity, and the Forster Woods Reservoir, which holds .75 million gallons.

Understanding Water Contaminants

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 land surface or through the ground it dissolves naturally-occurring minerals and can pick up substances resulting from the presence of animals or human activity.

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. A contaminant is defined as any substance in water. Not all substances are harmful. 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 or from the EPA’s Office of Ground Water website at www.epa.gov/ground-water-and-drinking-water.com

The City performs testing on a monitoring schedule determined by the Washington State Department of Health, and water quality results at the Mt. Si Spring and Centennial Well have always met compliance. Water treatment is achieved by disinfection with chlorine gas and liquid chlorine. To ensure that detectable disinfectant concentration is
active in all parts of the distribution system, samples are taken and tested daily at ten strategic locations within the North Bend water service area. Additionally, the city is currently required to test six bacteriological samples per month for the presence of E.Coli and fecal coliform. To date, all samples have tested satisfactorily.

**What are IOC’s?**
Inorganic Chemicals are elements or compounds that may be natural in geology or caused by activities of humans through mining, industry or agriculture. In August 2011 the City submitted samples for inorganic chemical analysis. IOC’s next date for testing is August 2020. Arsenic was last tested in May 2019 and is due next in August 2020.

**What are DBP’s?**
Another concern is Disinfection By-Products like Trihalomethanes (TTHM’s). These by-products can enter the water supply as a result of the disinfection process (usually chlorination). In December 2019, the city submitted samples for DBP analysis.

**What are VOC’s?**
Volatile Organic Chemicals (VOC’s) are contaminants that may be found in drinking water supplies across the nation. VOC’s are those organic chemicals (pesticides, herbicides and other chemicals) that are “readily vaporizable at a relatively low temperature. Some VOC’s are products of industrialization and can enter the water supply through various means, such as leakage of storage tanks, spills, or illegal dumping of toxic wastes. VOC’s were last tested in September 2017 and will be tested again in 2023.

**Asbestos**
A portion of the Cities distribution system contains asbestos cement (AC) water mains. Asbestos monitoring is required for utilities with asbestos pipe in the distribution system. In May of 2019 the City submitted samples for asbestos analysis. This test will be repeated in 2028.

**Steps we take to prevent contamination**
- **Cross-Connection Program/Backflow Prevention** – The City requires a backflow device to be connected to any potential connection between your drinking water pipes and a source of contamination such as irrigation systems.
- **Flushing—all dead-end water line** - The Water Department engages in a schedule of maintenance to ensure water is not left to stagnate and flush the lines at least twice a year.
- **Well Head Protection Plan** in accordance with Comp Plan
- **North Bends Reservoirs are cleaned every 3-5 as needed** - and repairs and maintenance done to keep all our reservoirs in top shape

**Definitions & Abbreviations**
- **Action Level - (AL)** the contaminant level that triggers treatment
- **HAA5 – Haloacetic Acids** - which are also disinfection by-products
- **Maximum Contaminant Level (MCL)** – The highest level of contaminant allowed.
- **Maximum Contaminant Level Goal - (MCLG)** – the level of contaminants below which there is no known or expected risk.
- **NonDetectable - (ND)** – No amount of contaminant was detected
- **Not applicable - (NA)** – Does not apply
- **Nephelometric Turbidity Unit – (NTU) **- A measure of the clarity of water
- **Parts per Billion - (PPB)**
- **Parts per million - (PPM)**
- **State Reporting Level - (SRL)**
- **TTHM – Total Trihalomethanes** – By-products of disinfection

**Who Ensures Water Quality in the City of North Bend?**
- The U.S. Environmental Protection Agency (EPA) sets national standards for over 100 potential drinking water contaminates under the Safe Drinking Water Act.
- The Washington State Department of Health enforces the EPA standards.
- The City of North Bend has water samples tested in compliance with all state and federal regulations.
- State Certified laboratories are used to test your water according to standards and report to the Department of Health.
2019 Water Quality Test Results

The State Department of Health sends a monitoring schedule to the City each year that determines what tests and contaminants are to be completed and reported. Some tests are done less frequently than each year and are not necessarily reported because concentrations vary little from year to year and they pose a low health risk. The table below summarizes the compounds tested in 2019.

### Source Monitoring

<table>
<thead>
<tr>
<th>Detected Substance</th>
<th>Unit of Measurement</th>
<th>Results</th>
<th>MCL</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrate &amp; Nitrite</td>
<td>ppm</td>
<td>ND</td>
<td>10</td>
<td>Yes</td>
</tr>
<tr>
<td>Arsenic</td>
<td>Mg/l</td>
<td>.0024</td>
<td>.01</td>
<td>Yes</td>
</tr>
<tr>
<td>Sodium*</td>
<td>Ppm</td>
<td>ND</td>
<td>No MCL</td>
<td>Yes</td>
</tr>
<tr>
<td>Hardness*</td>
<td>Ppm</td>
<td>35</td>
<td>No MCL</td>
<td>Yes</td>
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<tr>
<td>Turbidity*</td>
<td>NTU</td>
<td>.15</td>
<td>1.0</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Last tested in August 2011.  Next test due August 2020

### Distribution Monitoring

<table>
<thead>
<tr>
<th>Detected Substance</th>
<th>Unit of Measurement</th>
<th>Results</th>
<th>MCL</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asbestos</td>
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</tr>
<tr>
<td>Total Trihalomethane (THM)</td>
<td>ppb</td>
<td>.3.5</td>
<td>80</td>
<td>Yes</td>
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<tr>
<td>Halo-Acetic Acids (HAA5)</td>
<td>ppb</td>
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<tr>
<td>Lead*</td>
<td>Ppm</td>
<td>.0036</td>
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<tr>
<td>Copper*</td>
<td>Ppm</td>
<td>.017</td>
<td>1.3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Last tested in August 2011.  Next test due August 2020

### Your Drinking Water & COVID-19

We hope you and your family are staying safe and healthy at this difficult time. We want to assure you we are working hard to provide safe and reliable drinking water to your homes and businesses. During this time our staff is still conducting essential work, including collecting routine monitoring samples, monitoring the treatment, inspecting our facilities, reading meters, conducting important routine maintenance, and performing emergency repairs.

The City of North Bend Water Department is working hard to keep your water clean!

If you have any questions or concerns about your water, please call the City of North Bend Water Department at 425-888-7655, or the Public Works Department at 425-888-0486

Still concerned? You can get more information about water contaminants and health risks by contacting the Washington State Department of Health – Division of Drinking Water at 360-236-3100 or at [www.doh.wa.gov/Communityandenvironment/drinkingwater.com](http://www.doh.wa.gov/Communityandenvironment/drinkingwater.com)

or the US Environmental Protection Agency Safe Drinking Water Hotline at 1-800-426-4791 or at [www.epa.gov/ground-water-and-drinking-water.com](http://www.epa.gov/ground-water-and-drinking-water.com)