West Linn’s drinking water is drawn from the Lower Clackamas River. The Clackamas River flows west from its headwaters on Ollalie Butte, south of Mt. Hood, for nearly 83 miles until it joins the Willamette River near Oregon City. The Clackamas River watershed covers almost 1,000 square miles, most of it located within Clackamas County. The South Fork Water Board (SFWB) treats our water at their facility in the Park Place area of Oregon City. SFWB is jointly owned by the City of West Linn and the City of Oregon City. West Linn also has an emergency-only water main connection with Lake Oswego.

A source water assessment for the SFWB was completed in 2002 in compliance with the 1996 Amendments to the Safe Drinking Water Act. The Clackamas River watershed protection area is occupied by a wide variety of residential, agricultural, forest, commercial and industrial land uses. A total of 1,127 potential contaminant sources were identified within this area that could, if improperly managed or released, impact the water quality in the watershed. In 2010, the Clackamas River Water Providers (CRWP) completed a Drinking Water Protection Plan for the Clackamas River. The purpose of this plan is to provide CRWP with a road map of potential strategies and programs to implement over the next decade and beyond to preserve the Clackamas River as a high quality drinking water source. CRWP strives to keep its water treatment requirement as low as possible, while ensuring optimum water quality for our communities.

For more information about the programs CRWP is implementing or to download a copy of the plan, please visit clackamasproviders.org
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. The City of West Linn is responsible for providing high quality drinking water, but cannot control the variety of materials used in home 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 drinking water, you may wish to have your water tested. The City of West Linn is not able to test water as we are not a water testing laboratory. To get a list of accredited labs, visit the Oregon Health Authority’s Drinking Water Program website. 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

**Important Information About 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. The City of West Linn is responsible for providing high quality drinking water, but cannot control the variety of materials used in home 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 drinking water, you may wish to have your water tested. The City of West Linn is not able to test water as we are not a water testing laboratory. To get a list of accredited labs, visit the Oregon Health Authority’s Drinking Water Program website. 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

**Compliance with the Lead and Copper Rule**

Our last Lead and Copper testing event was labeled “Round 18” and took place in June of 2015. Because we are on a reduced sampling schedule by the State, our next Lead and Copper sampling events will take place in June 2018 and 2021.

**EPA Information About Drinking Water Contaminants**

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The sources of drinking water (both tap 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 dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

**Contaminants 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, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.

More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 1.800.426.4791.

**Important Information About Lead**

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**Health Conditions And Your Water**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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. The EPA and Centers for Disease Control and Prevention provide guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants and are available from the Safe Drinking Water Hotline (800-426-4791). Please read this report carefully, and if you have questions, call the resource numbers supplied.

**Bottled Water**

Bottled water that you may otherwise purchase comes under different standards and requirements than those required of tap water. Bottled water manufacturers are regulated by the Food and Drug Administration (FDA). Please be an informed consumer and check the sources and standards of your drinking water.

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.
Your drinking water meets or exceeds all Federal and State water quality requirements

Water Quality Testing Information

The results of tests performed in 2015 are presented on the water quality tables on pages 5 and 6. The City of West Linn and the SFWB Treatment Plant routinely monitor for contaminants in your drinking water as required by Federal and State laws. Only contaminants found to be present in the drinking water are listed in the following tables. Your drinking water is tested for more than 90 other contaminants. To view all testing results and compliance records visit the Oregon Health Authority website at [https://yourwater.oregon.gov](https://yourwater.oregon.gov/) and under WS ID Look Up enter 00944. West Linn’s full ID is OR4100944. The South Fork Water Board water system identification number is 00591.

Additional Information

For more information about West Linn’s drinking water, please contact Matt Kaatz Water Division Supervisor for the City of West Linn at:
Email: mkaatz@westlinnoregon.gov
Phone: (503) 656-6081

West Linn is a member of the American Water Works Association, a national organization dedicated to safe and sustainable water, and the South Fork Water Board, the wholesale supplier of your drinking water.
American Water Works Association: [www.awwa.org](http://www.awwa.org)
South Fork Water Board: [www.sfwb.org](http://www.sfwb.org)

We encourage public interest and participation in our community’s decisions affecting drinking water. Regular meetings of the West Linn City Council generally occur on the second and fourth Monday of each month at City Hall, 22500 Salamo Road, West Linn, at 6:30 p.m.

Table Definitions

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

**Contaminant:** Any physical, chemical, biological, or radiological substance or matter in water that creates a possible health hazard.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s 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. MCLG’s allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG’s do not reflect the benefits of the use of disinfectants to control microbial contamination.

**Million Fibers per Liter (MFL):** A measure of the presence of asbestos fibers longer than 10 micro meters.

**Minimum Reporting Level (MRL):** the smallest measured concentration of a substance that can be reliably measured by using a given analytical method.

**Nephelometric Turbidity Unit (NTU):** A measure of how cloudy water is due to suspended particles in the water. Smaller # = clearer water.

**Non-Detects (N/D):** Laboratory analysis indicates that the contaminant is not present or that it is present at levels too low for modern laboratory equipment to detect.

**Non-Regulated Contaminant:** These have guidelines set to assure good aesthetic quality and to identify levels of substances that may affect taste, odor, or color of water.

**Parts per million (ppm) or Milligrams per liter (mg/L):** One ppm is comparable to one minute in two years or a single penny in $10,000.

**Parts per billion (ppb) or Micrograms per liter (mcg/L):** One ppb is comparable to a single penny in $10,000,000 or the first 16 inches on a trip to the moon.

**Range:** The lowest to the highest values for all samples tested for each contaminant (this value is listed only where applicable).

**Secondary Maximum Contamination Level (SMCL):** The level of a secondary contaminant which when exceeded may adversely affect the aesthetic quality of the water which thereby may deter public acceptance of it or may interfere with water treatment methods.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
# 2015 Water Quality Monitoring Test Results

<table>
<thead>
<tr>
<th>Substance/Contaminant (Unit of Measure)</th>
<th>MCL (MRDI)</th>
<th>MCLG (MRD1G)</th>
<th>West Linn Measurement or Average (Range)</th>
<th>Sample Date</th>
<th>Major Sources in Drinking Water</th>
<th>In Compliance?</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disinfectant Residual, Disinfection By-Products &amp; By-Product Precursors</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlorine (ppm)</td>
<td>(4)</td>
<td>(4)</td>
<td>0.86 (0.20 - 1.37)</td>
<td>Daily; plus 30 samples taken monthly</td>
<td>Water additive used to control microbes</td>
<td>Yes</td>
</tr>
<tr>
<td>Haloacetic Acids¹ (ppb)</td>
<td>60</td>
<td>--</td>
<td>36.3 (21.7-43.7)</td>
<td>3rd week of each new quarter in 2015</td>
<td>By-product of drinking water chlorination</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Trihalomethanes¹ (ppb)</td>
<td>80</td>
<td>--</td>
<td>35.9 (27.6-38.3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Organic Carbon - Raw Water² (ppm)</td>
<td>TT</td>
<td>--</td>
<td>1.36 (0.90 - 2.32)</td>
<td></td>
<td>Naturally present in the environment</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Organic Carbon - Finished Water² (ppm)</td>
<td>TT</td>
<td>--</td>
<td>0.82 (0.57 - 1.19)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Microbiological Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turbidity³ (NTU)</td>
<td>TT = 0.3 in 95% of samples</td>
<td>--</td>
<td>(0.02-0.20)</td>
<td>Continuous: every 2 hours during water treatment plant operation</td>
<td>Soil runoff</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Inorganic Contaminants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asbestos (MFL)</td>
<td>7</td>
<td>--</td>
<td>0.115</td>
<td>10/31/2011</td>
<td>Decay of asbestos cement water mains and erosion of natural deposits</td>
<td>Yes</td>
</tr>
<tr>
<td>Nitrate (ppm)</td>
<td>10</td>
<td>10</td>
<td>0.214</td>
<td>2/17/2015</td>
<td>Runoff/leaching from fertilizer use; leaching from septic tanks &amp; sewage; erosion of natural deposits</td>
<td>Yes</td>
</tr>
<tr>
<td>Lead (ppb)⁴</td>
<td>AL = 15</td>
<td>--</td>
<td>90th % = 3</td>
<td></td>
<td>Corrosion of household plumbing; erosion of natural deposits</td>
<td>Yes</td>
</tr>
<tr>
<td>Copper (ppm)⁴</td>
<td>AL = 1.3</td>
<td>--</td>
<td>90th % = 0.056</td>
<td>6/10/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Secondary Standards⁵</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloride (ppm)</td>
<td>250</td>
<td>--</td>
<td>11</td>
<td>2/17/2015</td>
<td>Erosion of natural deposits</td>
<td>Yes</td>
</tr>
<tr>
<td>Iron (ppm)</td>
<td>0.30</td>
<td>--</td>
<td>0.021</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfate (ppm)</td>
<td>250</td>
<td>--</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Dissolved Solids (ppm)</td>
<td>500</td>
<td>--</td>
<td>74</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc (ppm)</td>
<td>5</td>
<td>--</td>
<td>0.027</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAA5) are produced by a chemical reaction between chlorine and organic matter in the water. Optimizing disinfection in drinking water minimizes the production of these two disinfection by-products. The reported averages and ranges are calculated by the locational running annual averages as required by the Oregon Health Authority - Drinking Water Services.

² Total Organic Carbon has no health effects; however TOC provides a medium for the formation of disinfection by-products.

³ Turbidity is a measure of the cloudiness or suspended particles in the water. Turbidity has no health effects, however it can interfere with disinfection and provide a medium for microbial growth. All samples met the turbidity limit of < 0.3 NTU throughout 2015.

⁴ 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 (30 samples were tested in June 2015).

⁵ Secondary Standards are non-enforceable guidelines regulating contaminants that may cause cosmetic effects, i.e. skin or tooth discoloration or aesthetic effects, i.e. taste, odor or color.
Monitoring for Unregulated Contaminants

Monitoring for unregulated contaminants helps the EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants in the future.

### Unregulated Contaminants

<table>
<thead>
<tr>
<th>Substance/Contaminant (Unit of Measure)</th>
<th>MCL</th>
<th>West Linn Measurement</th>
<th>Sample Date</th>
<th>Major Sources in Drinking Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromodichloromethane (ppb)</td>
<td>—</td>
<td>2.2</td>
<td>7/21/2015</td>
<td>By-product of chlorine disinfection, combined with organic matter</td>
</tr>
<tr>
<td>Chloroform (ppb)</td>
<td>—</td>
<td>11.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium (ppm)</td>
<td>20*</td>
<td>9.4</td>
<td>2/17/2015</td>
<td>Runoff/leaching from natural deposits</td>
</tr>
</tbody>
</table>

*Recommended maximum sodium level.

In May 2014, West Linn began additional monitoring for unregulated contaminants on a quarterly basis for a period of one year only, as required by EPA. Approximately 6,000 public water systems conducted this special monitoring to provide scientifically valid data on the occurrence of these contaminants. EPA uses this data to assess the number of people potentially being exposed and at what levels of exposure. The agency then uses this information to develop regulations for contaminants of concern. West Linn water was tested for 21 contaminants; five were detected and are listed below. The results for Sampling Event 4 (2/4/15) are listed below, results for Sampling Events 1-3 were reported in the 2015 Annual Water Quality Report.

### The Third Unregulated Contaminant Monitoring Rule (UCMR 3*)

<table>
<thead>
<tr>
<th>Substance/Contaminant (Unit of Measure)</th>
<th>Average (ppb)</th>
<th>Range (ppb)</th>
<th>Sample Date</th>
<th>Use or Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorate</td>
<td>59</td>
<td>58 - 60</td>
<td>2/4/15</td>
<td>Used as an agricultural defoliant or desiccant and in the production of chlorine dioxide</td>
</tr>
<tr>
<td>Hexavalent Chromium</td>
<td>0.091</td>
<td>0.086 - 0.096</td>
<td>2/4/15</td>
<td>Erosion of natural deposits; used in various manufacturing processes</td>
</tr>
<tr>
<td>Total Chromium</td>
<td>&lt; 0.2</td>
<td>&lt; 0.2 - &lt; 0.2**</td>
<td>2/4/15</td>
<td></td>
</tr>
<tr>
<td>Strontium</td>
<td>33.5</td>
<td>31 - 36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanadium</td>
<td>0.78</td>
<td>0.75 - 0.81</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Find more information about the UCMR 3 here: [http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3](http://water.epa.gov/lawsregs/rulesregs/sdwa/ucmr/ucmr3)

**Both samples had the same value of < 0.2 ppb

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**WATER QUESTIONS?
We Have Answers!**

**Water Quality Question?**
(503) 656-6081

**Water Billing Question?**
(503) 656-4261

**Water Emergency?**
(503) 656-6081

**After-hours Water Emergency?**
(503) 635-0238

---

**Water Value**

**Bottled Water vs. Tap Water**

Your West Linn Water is delivered to your property and costs a fraction of a penny per gallon!

<table>
<thead>
<tr>
<th>Water Size</th>
<th>Cost (pp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.7 oz (0.7 L)</td>
<td>$0.46</td>
</tr>
<tr>
<td>33.8 oz (1 L)</td>
<td>$0.99</td>
</tr>
<tr>
<td>33.8 oz (1 L)</td>
<td>$2.19</td>
</tr>
<tr>
<td>33.8 oz (1 L)</td>
<td>$1.43</td>
</tr>
<tr>
<td>128 oz (3.7 L = 1 Gal)</td>
<td>$0.004</td>
</tr>
</tbody>
</table>

*Cost for a standard residential customer on a 5/8 x 3/4 meter. First 700cf.

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West Linn 2016 Water Quality Report  | 6
Pollution Prevention

Did you know that stormwater runoff is the number one source of water pollution? When it rains, pollutants from your home, driveway, car, and garden can send pollution directly into our wetlands, streams, and rivers.

Each of us contributes to stormwater pollution. Each of us can take steps to reduce stormwater pollution. Following are some easy ways to improve the health of West Linn’s streams and rivers.

Lawn and Garden Care — Skip the weed and feed. Chemicals are harmful to children and pets. Rain can wash chemicals off your lawn and into storm drains and streams. Use slow release fertilizers or compost to add nutrients. Native plants need less water and maintenance. Learn more here: http://www.oregonmetro.gov/index.cfm/go/by.web/id=24309
http://extension.oregonstate.edu/gardening/

Vehicle Care — Maintain your vehicles to reduce oil and fluid leaks. Motor oil, solvents, and soaps wash into our rivers and streams. Consider using EcoBiz-certified mechanics who use environmentally safe and healthy practices. Use a commercial car wash or wash your vehicle on the lawn to prevent runoff of soap and grime. http://www.ecobiz.org

Roof Treatments — Use alternatives to chemical treatment for moss and lichen removal. Typical chemical treatments contain copper, zinc, and iron sulfate metals that are harmful to our waterways and aquatic life. Prevent moss growth by keeping debris and leaves off the roof; sweep or use a blower to remove debris once or twice a year. Prune back overhanging tree branches to reduce shade and moisture to slow moss buildup.

Pressure Washing — Be stream friendly when cleaning your home, deck, sidewalk, and driveway. Pollutants from cleaning activities can flow into storm drains and ditches directly into our rivers and streams. Sweep sidewalks and driveways and place the sweepings into the garbage. If you do pressure wash, divert the runoff toward grassy or planted areas.

Pick up after your pets — Bacteria from uncollected dog waste washes into our rivers and streams. Pet waste can contain pathogens such as Giardia, E. coli, Salmonella, and Campylobacter — these can cause illness in humans, especially children and the elderly. Always pick up after your pet when on walks, avoid children’s play areas, and remember to pick up in your own yard too.

Does a stream flow through your property? Learn what you can do to protect and improve the vegetation and trees alongside the water. A healthy riparian area has many benefits, including filtering sediment and pollutants from stormwater runoff and providing shade to cool stream water temperature. Elevated water temperature can negatively impact coldwater fish and other coldwater aquatic species. Visit http://conservationdistrict.org/resources/stream
WATER IS LIFE. Don’t Take it for Granted

Invisible Problem

Water infrastructure plays a critical role in protecting public health, sanitation, fire protection, promoting economic prosperity, and ensuring a good quality of life. These systems, and the people who maintain them, work silently and reliably to keep the water flowing. Because our water pipes are buried out of sight, we often take them for granted, but their maintenance and replacement is essential.

Support Investment in Aging Infrastructure

It takes an enormous investment in infrastructure and maintenance for water treatment, storage, and delivery systems. We see roads falling apart, but infrastructure hidden under our feet is also deteriorating. It is critical that we support the investment needed to replace our aging infrastructure.

We Are Not Alone

Cities across the country face the same problem. Much of today’s public water systems were built more than 50 years ago and are entering an era of needed infrastructure replacement.

Stay Educated on Water Issues

Learn more about the water you drink and use. Start by reading and understanding this water quality report and your water bill.

learn more at: westlinnoregon.gov/publicworks/water

Customers may request a mailed paper copy of this report by contacting Public Works at (503) 656-6081 or by email at mkaatz@westlinnoregon.gov

The City of West Linn will provide auxiliary aid services to persons with disabilities. To request an ADA accommodation of this information in an alternate format please contact Public Works at (503) 656-6081 or by email at mkaatz@westlinnoregon.gov