WATER SUPPLY SOURCES:
The City of Orange water supplies are from various sources including, groundwater, purchased water from northern California and the Colorado River, treated water from the City of Fullerton, and reclaimed water. We are committed to protecting the quality of our water supply.

WATER QUALITY PROBLEMS AND ACTIVITIES:
The City of Orange adheres to strict regulatory standards for materials used in the water system. Regular third party testing verifies that all materials are approved for use in potable water systems. We also operate our own on-site, certified drinking water laboratory. With testing performed in the lab and contracted testing with other public and private laboratories, we are able to ensure that our water supplies meet or exceed all applicable drinking water standards. In addition, our staff administers a cross-connection control program to protect the water service connections where there is a possibility of reverse flow contaminating our water system.

DISINFECTION:
Water supplies are made safe to drink in several ways. All of the city’s well water supplies are naturally filtered as the water percolates through the ground and is sieved. As an added protection, the city chlorinates all well water pumped into the distribution system. Other water sources require treatment at facilities designed to remove impurities and make water safe to drink. Water treatment facilities use various forms of disinfection including chlorine, chloramines and ozone. Each, or a combination of these, may be used in our outdoor water purchased by the city for delivery to our customers. All treatment methods are designed to make the water safe for humans to drink. Chlorination distribution can be toxic to fish and other aquatic animals and is of concern for kidney dialysis patients. Water supplied with chloramines generally makes up about 25% to 35% of our total supply. Pet fish owners should take appropriate remedies when changing or adding water from the tap to fishponds or fish tanks. Dialysis patients should consult a healthcare professional for appropriate precautions.

The City of Orange maintains high standards for water supplies available for all to use and is a Class 1 Water System by the Insurance Services Office. We have over 4,500 public fire hydrants located throughout our service area. Many other hydrants are privately owned and maintained by the property owner. The city tests all public hydrants located in the city, usually once each year. It is very important that hydrants function properly and are accessible to firefighters when emergency supplies are needed. If there is a hydrant in front of your home or an area property, please maintain a sufficient amount of space around the hydrant. Bushes, shrubs, trees, etc. should be trimmed to keep the hydrant visible.

The City of Orange Watersupplies are from the following sources:

- Groundwater from the Los Angeles Depression Basin, the Colorado River, local groundwater basins, local watersheds, reclamation and water reuse projects, and ocean water.
- Purchased water from northern California and the Colorado River.
- Treated water from the City of Fullerton.
- Treated water from the City of Orange.
- Reclaimed wastewater from the Orange County Water District, located at 189 Water St., or you may request a summary be sent to you by calling the City of Orange Water Division at (714) 280-2447.

REGIONAL WATER SUPPLY SOURCES:
Water supplies throughout Southern California are derived from several sources. These sources include water from the Colorado River, purchased water from northern California, and locally treated surface water and reclaimed wastewater.

CONSUMER CONFIDENCE REPORT 2016
This report contains important information about your tap water system and the City of Orange Water Division. For more information, please call (714) 280-2447.

CUSTOMER SERVICE:
We are committed to provide prompt courteous service to our customers. If you have questions about water quality, pressure or other supply issues, please call (714) 280-2447 or any other business hours. If an emergency is declared, follow the instructions of your local Water Utility. Therefore, almost all of the water in the City of Orange is treated with chloramines.

SOURCE WATER ASSESSMENT:
This report contains important information about your tap water system and the City of Orange Water Division. For more information, please call (714) 280-2447.

This 2016 Consumer Confidence Report is an example of what you may expect to receive from your local water utility. The information contained herein is subject to change without notice.

This report contains important information about your tap water system and the City of Orange Water Division. For more information, please call (714) 280-2447.

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Since 2005, the City of Orange has provided a water quality annual water report. The federal government has adopted guidelines for water agencies to follow when quantifying water contaminants information to customers. The State of California followed these guidelines and the former water quality report was called the Corrosion Control Reports to inform customers about the occurrence and summary of the water quality data, key definitions, and water treatment processes.

This report summarizes the quality of the water provided in 2016. It includes details about water sources, what the water contains, and how it is accessed to standards set by the State of California. Orange vigilantly monitors and safeguards its water supplies. We are pleased to report that our water is all tested and California State drinking water standards were met in 2016. To view the entire report, visit www.ocrwd.com or call at 714-254-8900 and ask for Chris Costlow or Jason Atkinson.

Some people may be more vulnerable to contaminants in drinking water than the general population. For example, infants and children younger than six years, people who have weakened immune systems, the elderly, and people who are pregnant. These people may be more vulnerable to certain contaminants because they are more likely to consume water, or their immune system cannot handle toxins effectively. Other people may be more vulnerable because of their activities or other factors.

We made these guidelines and the former water quality reports tailored to provide customers a summary of the water quality data, key definitions, and information for customers. The new format is intended to provide customers a better understanding of the drinking water available to them.

Inorganic Contaminants

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Unit</th>
<th>Measurement</th>
<th>MCL (MRDL)</th>
<th>PHG (MRDLG)</th>
<th>Range</th>
<th>Average</th>
<th>Date</th>
<th>Typical Source of Contamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloride</td>
<td>ppm</td>
<td>1500</td>
<td>42-128</td>
<td>0.83</td>
<td>0.1</td>
<td>2016</td>
<td>Erosion of Natural Deposits</td>
<td></td>
</tr>
<tr>
<td>Nitrate</td>
<td>ppm</td>
<td>10000</td>
<td>0-1000</td>
<td>83</td>
<td>0.2</td>
<td>2016</td>
<td>Fertilizers; Septic Tanks</td>
<td></td>
</tr>
<tr>
<td>Nickel</td>
<td>ppm</td>
<td>20</td>
<td>1-10</td>
<td>0.7</td>
<td>0.1</td>
<td>2016</td>
<td>Groundwater Use/Industrial Waste</td>
<td></td>
</tr>
<tr>
<td>Turbidity: Distribution System</td>
<td>NTU</td>
<td>5</td>
<td>0.04-0.46</td>
<td>0.1</td>
<td>Monthly</td>
<td>Soil runoff, Water run off, Industrial, Agriculture, Urban, Aquifers, Irrigation, Ground Water Use</td>
<td></td>
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The table below lists all the drinking water contaminants detected by the City of Orange during the 2016 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in the table is from testing done January 1 to December 31, 2016. The State of California and the City of Orange offer corrosion control for certain contaminants in the water; these contaminants may not be present in every home.

The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is reasonably achievable while minimizing treatment costs intended to reduce the level of a contaminant in drinking water.

Some contaminants have no MCL because research has not demonstrated or found a health effect from exposure to these levels.

The level of a contaminant in water that poses no known or expected risk to health. MRDLs are set by the U.S. Environmental Protection Agency.

The maximum level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is reasonably achievable and economically and technologically feasible.

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Since 2008, The City of Orange has provided a water quality annual report. The federal government has adopted guidelines for water agencies to follow when communicating water quality information to consumers. The State of California has adopted similar guidelines for the general public. Water quality information is distributed, in addition to all new mailings, the second week of water is impacted by the Metropolitan Water District (from the Colorado River and its tributaries), Orange County, the San Diego Metropolitan System (as filtered and distributed from Metropolitan), and Orange County. The community is welcomed to participate in these meetings.

Drinking water includes bottled water or water from public systems. The presence of some contaminants in the water does not necessarily indicate that the water poses a health risk. Public health goals (PHGs) are established by the California State Water Resources Control Board, are health based goals that may not be exceeded at the consumer’s tap. [further text]

**Microbiological contaminants**

- **Bacterial**
  - **E. coli**
  - **Salmonella**
  - **Staphylococcus aureus**

- **Protozoan**
  - **Giardia lamblia**
  - **Cryptosporidium**

- **Viral**

- **Rabies**

- **Fungal**

**Radioactive Contaminants**

- **Radon**

**Organic Compounds**

- **Aldehydes**
  - **Acrylamide**
  - **Propylene oxide**

- **Aromatic hydrocarbons**
  - **Benzene**
  - **Toluene**

- **PAHs**

**Inorganic Compounds**

- **Arsenic**

- **Chloride**

- **Iron**

- **Lead**

- **Nitrate**

- **Sulfate**

- **Turbidity**

**Trace Metals**

- **Barium**

- **Cadmium**

- **Mercury**

**Other Contaminants**

- **Montmorillonite**

- **Other**

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CUSTOMER SERVICE: We are committed to provide prompt courteous service to our customers. If you have questions about water quality,8 premises or other utility issues, please call (714) 284-2675 or regular business hours. All customer service questions will be answered by our trained personnel. To avoid any potential conflicts with water systems, customers should be directed to their utility billing office for assistance. For water quality issues, please contact the City of Orange Water Division at (714) 284-2675. Water division staff are available to assist customers with inquiries about water quality issues.

WATER QUALITY PROGRAMS AND ACTIVITIES: The City of Orange adheres to strict regulatory standards for materials and the water supply. The City of Orange has a well-defined procedure for testing all materials approved for use in potable systems. We also operate our own in-house water treatment facilities. Water treatment is performed in the City’s labs and conducted with other public and private laboratories, to assure that our water supplies are monitored and evaluated. All drinking water systems are required to test water quality at least once a year. In the event that water quality standards are exceeded, appropriate actions are taken to protect public health. The City of Orange adheres to strict regulatory standards for materials used in our water systems.

SOURCE WATER ASSESSMENT: Water supplies from various sources such as ground water, purchased water from Northern California and the Colorado River, and local groundwater basins. A comprehensive analysis of potential sources of contamination is performed to ensure the safety of the water supply. This includes a review of the raw water sources, potential contaminants, and the effectiveness of disinfection methods. The City of Orange performs annual water quality assessments to ensure compliance with all applicable regulations. Water quality data is continuously monitored and analyzed to identify any potential problems. The City of Orange adheres to strict regulatory standards for materials used in our water systems.

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Water Quality Inspector
Sr. Water Quality Inspector
(714) 288-2475

This report contains important information on water quality. If you have questions about water quality, pressure or other supply issues, please call (714) 284-2475 or other regular business hours (714) 538-1961. Otherwise, almost all Water Utilities should be directed to our safety hotline at (714) 749-2253.

ONGOING WATER QUALITY PROGRAMS AND ACTIVITIES:
The City of Orange adheres to strict regulatory standards for all water systems. Every third party testing program and all materials are approved for use in portable water systems. We also operate our own state certified drinking water laboratory with testing performed in the lab and contracted testing with other public and private laboratories. This is not to say that our water supplies may not require treatment at facilities designed to remove all applicable drinking water standards. Our staff administers a cross-connection control program to protect that water service connections are protected where there is a possibility of reverse flow contaminating our water system.

DISINFECTION: Water supplies are made safe to drink in several ways. All of the city's well water supplies are naturally filtered as the water percolates through the ground removing impurities. As an added protection, the city chlorinates all well water pumped into the distribution system. Other water sources require treatment at facilities designed to remove impurities and make water safe to drink. Water treatment facilities use various forms of disinfection including chlorine, chloramines and ozone. Each, or a combination of these, may be used in our surface water purchases for the city for delivery to our customers. All treatment methods are designed to make the water safe for humans to drink. Chlorination distribution can be toxic to fish and other aquatic animals and is of concern for kidney dialysis patients. Water supplies with chloramines generally make up about 60% to 90% of the total supply. Pet fish owners should take appropriate measures when changing water by using water from the tap to change tanks. Dialysis patients should contact the health care professional for appropriate treatment.

Stakeholders:

City Supplies:
- Waterlaboratory. With testing performed in the city's lab and contracted testing with other public and private laboratories. This is not to say that our water supplies may not require treatment at facilities designed to remove all applicable drinking water standards. Our staff administers a cross-connection control program to protect that water service connections are protected where there is a possibility of reverse flow contaminating our water system.
- The city chlorinates all well water pumped into the distribution system. Other water sources require treatment at facilities designed to remove impurities and make water safe to drink. Water treatment facilities use various forms of disinfection including chlorine, chloramines and ozone. Each, or a combination of these, may be used in our surface water purchases for the city for delivery to our customers. All treatment methods are designed to make the water safe for humans to drink. Chlorination distribution can be toxic to fish and other aquatic animals and is of concern for kidney dialysis patients. Water supplies with chloramines generally make up about 60% to 90% of the total supply. Pet fish owners should take appropriate measures when changing water by using water from the tap to change tanks. Dialysis patients should contact the health care professional for appropriate treatment.

City of Orange Water Division Service Area Map
City of Orange Water Division
P.O. Box 670, Orange, CA 92866
(714) 284-2475
www.cityoforange.org

Source Water Assessment
City of Orange Water Division Service Area Map

Water Quality Inspector
Sr. Water Quality Inspector
(714) 288-2475

This report contains important information on water quality. If you have questions about water quality, pressure or other supply issues, please call (714) 284-2475 or other regular business hours (714) 538-1961. Otherwise, almost all Water Utilities should be directed to our safety hotline at (714) 749-2253.

ONGOING WATER QUALITY PROGRAMS AND ACTIVITIES:
The City of Orange adheres to strict regulatory standards for all water systems. Every third party testing program and all materials are approved for use in portable water systems. We also operate our own state certified drinking water laboratory with testing performed in the city's lab and contracted testing with other public and private laboratories. This is not to say that our water supplies may not require treatment at facilities designed to remove all applicable drinking water standards. Our staff administers a cross-connection control program to protect that water service connections are protected where there is a possibility of reverse flow contaminating our water system.

DISINFECTION: Water supplies are made safe to drink in several ways. All of the city's well water supplies are naturally filtered as the water percolates through the ground removing impurities. As an added protection, the city chlorinates all well water pumped into the distribution system. Other water sources require treatment at facilities designed to remove impurities and make water safe to drink. Water treatment facilities use various forms of disinfection including chlorine, chloramines and ozone. Each, or a combination of these, may be used in our surface water purchases for the city for delivery to our customers. All treatment methods are designed to make the water safe for humans to drink. Chlorination distribution can be toxic to fish and other aquatic animals and is of concern for kidney dialysis patients. Water supplies with chloramines generally make up about 60% to 90% of the total supply. Pet fish owners should take appropriate measures when changing water by using water from the tap to change tanks. Dialysis patients should consult the health care professional for appropriate treatment.

Fire Hydrants:
The City of Orange maintains high standards for water supplies available for fire protection and is rated a Class II Water System by the Insurance Services Office. We have over 4,500 public fire hydrants located throughout our service area. Many other hydrants are privately owned and maintained by the property owner. The city tests all public hydrants throughout the city, usually once each year. It is very important that hydrants function properly and are accessible to firefighters when emergency supplies are needed. If there is a hydrant in front of your home or on your property, please maintain a sufficient area around the hydrant. Bushes, shrubs, trees, etc. should be trimmed to keep the hydrant visible and accessible.

Regional Water Supply Sources:
Water supplies throughout Southern California are derived from several sources. These sources include water from Northern California via the State Water Project, Desalinated Water, available to the City of Orange now or in the future. Reliable water supplies are essential to our ability to meet water needs in the future. We are committed to providing water that meets or exceeds all applicable drinking water standards. In addition, we are committed to utilizing water from sources in the ground that will ensure adequate water supplies now and into the future. Please help preserve the value of a reliable water supply by conserving water whenever you need it, but please don't waste water. For water conservation information, please call (714) 284-1475.

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