



## Test Driving a Water Treatment Plant



**Lake Oswego · Tigard  
Water Partnership**

*sharing water · connecting communities*

### Questions?

*Tigard has the answers!*

#### **Your Water Bill?**

Utility Billing  
**503-718-2460**

#### **Water Quality?**

Jennifer Joe  
jennifer@tigard-or.gov  
**503-718-2599**

#### **Water Conservation?**

Jennifer Joe  
jennifer@tigard-or.gov  
**503-718-2599**

#### **Backflow Prevention?**

Hung Nguyen  
hung@tigard-or.gov  
**503-718-2603**

#### **Water Emergencies?**

Public Works  
**503-718-2591**

#### **After-hours**

#### **Water Emergencies?**

On-call Service  
**503-639-1554**

#### **General Inquiries?**

Public Works  
**503-718-2591**

In 2008, Lake Oswego and Tigard entered into a water partnership. Under the partnership, Tigard and Lake Oswego joined forces to improve and expand Lake Oswego's existing water system to meet both communities' future water needs. The two cities are currently planning the expansion and modernization of the water treatment plant.

How will the new treatment plant perform? The partnership intends to answer that question

by taking it for a test drive. This fall, a working, miniature version of the plant will be assembled, enabling Tigard and Lake Oswego to evaluate how well the new plant and treatment process will work. What we learn from this pilot plant will be used to refine the design and operation of the actual treatment plant.

The pilot plant, located in temporary structures on the existing water treatment plant site, will operate like a regular

plant, but on a much smaller scale. It will yield about 250,000 gallons of water per day, as opposed to the 32 million gallons per day the new plant will produce during periods of high demand.

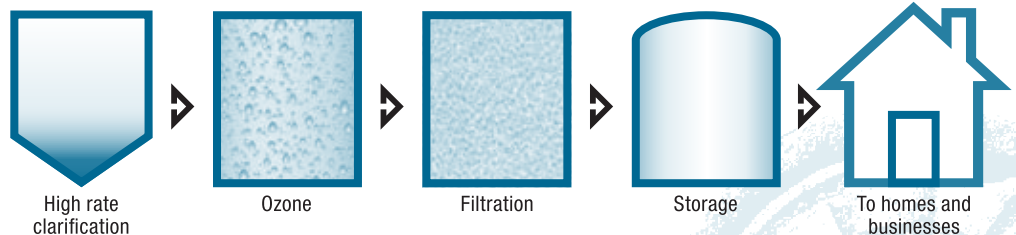
The partnership's water will be drawn from the Clackamas River. This water will undergo several processes in the treatment plant (shown below). The pilot plant will operate for about nine months to ensure the treatment process performs well under different seasonal conditions.

*(continued on reverse side)*



Clackamas  
River water

### THE PILOT PLANT WATER TREATMENT PROCESS



**High rate clarification** helps to remove sediment and algae prior to filtration.

**Ozone** is a disinfectant that reduces impurities including pathogens, algal toxins and disinfection by-products. It also removes undesirable taste and odor-causing compounds.

**Filtration** physically removes particles and impurities.

# Water Conservation Calendar CONTEST WINNERS

The City of Tigard is pleased to announce the artists whose work will appear in the 2012 water conservation calendar, "Life Grows Where Water Flows." The calendar features the winning artwork from a contest held this past spring. The city received 500 entries from six elementary schools within the Tigard Water Service Area.

The 2012 calendar will be available at the Tigard Public Library and the Public Works Building in November 2011. Congratulations to the following talented artists:

C.F. Tigard Elementary:	<b>Savannah Howell and Samantha Miller</b>
Deer Creek Elementary:	<b>Payton Madarieta, Genna Diforio, Joshua Lim, Jane Zhang and Ellie Stiller</b>
Durham Elementary:	<b>Bailee Olson</b>
Templeton Elementary:	<b>Grace Biggs and Samantha Steinbichler</b>
St. Anthony School:	<b>Catherine Myerson, Teddy Fronczak and Isabella Mori</b>
Woodward Elementary:	<b>Lily McNutt</b>

# Cash in Your Old, Water-guzzlin' Toilet

Water customers can receive up to \$150 (\$75 per toilet, with a two-toilet limit) reimbursement on their water bill by:

- ▶ Replacing their old toilet with a WaterSense® model
- AND**
- ▶ Recycling their old toilet. Recycling is easy at the Westside Toilet Roundup.



## Westside Toilet Roundup

**WHEN:** Saturday, October 15, 2011 | 9 a.m. – 1 p.m.  
**WHERE:** Tualatin Valley Water District  
 1850 SW 170th Ave., Beaverton, Oregon  
**COST:** Free

This event is sponsored by the City of Tigard and the Tualatin Valley Water District.

*Questions? Contact Environmental Program Coordinator Jennifer Joe at 503-718-2599 or [jennifer@tigard-or.gov](mailto:jennifer@tigard-or.gov). For specifics on the WaterSense® Toilet Reimbursement Program, visit [www.tigard-or.gov/water](http://www.tigard-or.gov/water).*

**GET INVOLVED!** Intergovernmental Water Board meetings are open to the public and are held on the second Wednesday of each month at 5:30 p.m. in the Tigard Public Works Building, 8777 SW Burnham Street in Tigard, Oregon.

## Test Driving a Water Treatment Plant

*(continued from reverse side)*

In addition to evaluating the performance of the pilot plant, the water produced from the plant will be analyzed at the water treatment plant laboratory and at independent, state-certified labs. This analysis will ensure these state-of-the-art treatment methods satisfy state and federal drinking water regulations and meet customer expectations for taste and odor. The analysis will help us gauge our ability to deal with testing and treatment regulations that may be implemented in the future.

For more information on the water partnership, visit [www.lotigardwater.org](http://www.lotigardwater.org).



**City of Tigard**  
 PUBLIC WORKS DEPT.  
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 Tigard, OR 97223

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