

# Annual Water Use Efficiency Performance Report Form

Please refer to the *Getting Started – Water Use Efficiency Guidebook*, DOH Pub. 331-375, for help in filling out this form.

## General System Information:

System Name: City of Olympia

System ID #: 634506

County: Thurston

Your Name: Chris Jackson

Your Title: Interim Water Conservation Program Coordinator

Your Phone Number: 360.753.8271

Today's Date: 07.1.2008

## Production and Distribution System Leakage Information:

12-Month Performance Reporting Period:

January 2007 to December 2007

<b>Distribution System Leakage Summary:</b>	
Total Water Produced– 2007 Volume	3,034 million gallons
Distribution System Leakage – 2007 Volume	268 million gallons
Distribution System Leakage – 2007 Percent	8.84 %

## Goal Setting Information:

**Date of Public Forum:** 2004

**Has goal been changed since last performance report?**  Yes  No

**In the following section, provide a narrative on progress in reaching your goals.**

*Current Goal:* In 2004, the City adopted a goal of reducing water use by one percent per connection each year through 2008. In 2005, the City's water use dropped 4.23 percent, from 359 gallons per connection per day (gpcd) in 2004 to 344 gpcd in 2005. In 2006, water use per connection rose slightly, to 345 gpcd; in 2007, consumption dropped 7.84 percent to 318 gpcd.

*Success of Current Goal:* The City did not meet its goal of reducing usage by one percent per connection in each year. However, between 2004 and 2007 water use per connection decreased an average 3.97 percent annually. This is an overall reduction of 8.06 percent or about 347 million gallons between 2004 and 2007. Also during this period, the number of connections to the water system increased by 4.35 percent.

*Annual Progress towards WUE Goal:*

- 2004 to 2005 - 4.23 % decrease in water use per connection
- 2005 to 2006 - 0.15 % increase in water use per connection
- 2006 to 2007 - 7.84 % decrease in water use per connection

*Future Goal:* The Drinking Water Utility is currently preparing its 2009-2014 Water System Plan. The water savings goal proposed in the upcoming Plan is to reduce water use by 5 percent per connection between 2009 and 2014. A Public Hearing will be held to receive public comment on the Plan at a City Council Meeting scheduled for September 9, 2008. We anticipate submitting the Plan to the Washington State Department of Health in November 2008, and final adoption of the Plan by City Council by May 2009.

*2007 Water Use Efficiency Programs:*

- Waste of Water Prohibition - The City has an ordinance preventing the waste of water.
- Leak Detection and Repair - The City conducted a leak detection survey, finding and fixing leaks and saving 14.72 MG.
- Water Loss Accounting - The City's water loss accounting program has tracked water use and water loss since 2004.
- Regional Partnerships - The City partners with Lacey, Tumwater, the LOTT Alliance, the Partnership for Water Conservation, the Pacific NW Section of AWWA, and other organizations to discuss and promote water conservation.
- WaterSmart Technology Rebates - Rebates for up to 75% of the installed cost of water-efficient equipment are available to Industrial, Commercial, and Institutional customers.
- Wash Wise Rebates - Rebates of \$100 for the purchase of qualifying resource-efficient clothes washers are available to residential customers.
- Composting Toilet Rebates - Rebates of up to \$350 are available toward the

purchase of composting toilets approved by the State Department of Health are available for City sewer customers.

- Pressure Reducing Valve Rebates - Rebates of up to \$125 are available for customers with initial pressure above 80 psi who install a pressure reducing valve.
- Rain Barrel Incentives - Rebates of \$20 per rain barrel for up to 3 barrels are available for City water customers.
- Water Saving Kits - Kits contain a low-flow showerhead, kitchen and bathroom faucet aerators, and toilet leak detection tablets, and are available to City sewer customers.
- Irrigation System Assessments - A free detailed audit of customers' irrigation systems and practices that includes an individualized report with recommendations on how to use water more efficiently is available for City water customers.
- Irrigation Rebates - Customers who have received an irrigation system assessment can receive rebates for the purchase of water-efficient devices recommended by the auditor.
- Rain Sensor Distribution - Free rain sensors are available for City water customers with automatic irrigation systems.
- Outdoor Conservation Device Distribution - Rain gauges, hose repair kits soil corers, and literature on irrigation are free for City water customers.
- Annual Water Conservation Campaign - The City's Water Conservation Program distributed information about water conservation in utility bill inserts, through street banner hanging, tabling a water conservation display at various public events, and showing our water conservation display at City Hall.
- Classes, Workshops and Event Staffing - The City held several classes on waterwise gardening and efficient irrigation.
- WaterWise Demonstration Gardens - A waterwise demonstration garden was installed at Garfield Elementary School.
- Consumption Graph On Utility Bill - A graph of water consumption appears on customers' utility bills so that they can see how their present water use compares to their water use in previous months and years.

*2007 Water Conservation Rate Structure:*

The City has a conservation rate structure. A four-tiered, inclining block rate structure is used for single-family residential customers. All other customers are charged a seasonal water rate, paying more for each unit of water in the summer months. Non-residential customers also pay consumption-based sewer charges.

*2007 Use of Reclaimed Water:*

The Budd Inlet Reclaimed Water Plant began generating Class A reclaimed water in 2005. Currently, the plant can produce up to one million gallons of reclaimed water each day. Based on the City's Distribution Agreement with LOTT, 460,000 gallons of this water is available to Olympia per day. While LOTT generates this reclaimed water, Olympia is responsible for distributing the water to its customers. Olympia began distributing reclaimed water in the downtown area in 2006. In 2007, Olympia distributed 10.2 MG of reclaimed water.

## Meter Installation Information:

Is your system fully metered?  Yes  No

It is not known when the City became fully metered. The longest serving water meter reader was hired in 1976, and all water service connections were metered at that time. She believes the City may have been fully metered since the 1940s.

Supply sources (McAllister Springs and six wells) have been metered since they were installed.

- Olympia began pumping water from McAllister Springs (S01) in 1949
- Hoffman Well 3 (S08) was installed in 1985
- Shana Park Well 11 (S10) was installed in 1989
- Kaiser Well 1 (S03) was installed in 1976
- Allison Springs Well 13 (S09) was installed in 1989
- Allison Springs Well 19 (S11) was installed in 1994
- Indian Summer Well 20 (S12) was installed in 2008

### Describe your progress in metering and any efforts taken to minimize leakage:

The City has an ongoing leak detection program. In 2007, leaks found and fixed reduced leakage by 15.7 million gallons. In 2007, distribution system leakage was accounted for as follows:

- 0.49 MG - main, line, and service breaks (0.03 % of production)
  - *all breaks found and fixed*
- 14.72 MG - small leaks found by leak detection survey (0.49 % of production)
  - *all small leaks found and fixed*
- 0.16 MG - theft of services (0.01 % of production)
  - *sites where water theft occurred are now metered*
- 13.77 MG - improper use by construction permit holders (0.45 % of production)
  - *construction sites will be metered beginning in mid-2008*
- 32.65 MG - service meter inaccuracy (4.37 % of production)
  - *meter replacement options are currently being researched*
- 106.04 MG - unknown water loss (3.50% of production)

#### Return this completed form to:

E-mail: wue@doh.wa.gov  
Mail: WUE Program, Office of Drinking Water  
PO Box 47822, Olympia, WA 98504-7822  
FAX: (360) 236-2252

For more information, contact a regional planner:

**Eastern Regional Office – Spokane – Main Office: 509-456-3115**  
**Southwest Regional Office – Tumwater – Main Office: 360-236-3030**  
**Northwest Regional Office – Kent – Main Office: 253-395-6750**

The Department of Health is an equal opportunity agency. For persons with disabilities, this form is available on request in other formats. To submit a request, please call 1-800-525-0127 (TTY 1-800-833-6388).