

## 2015 Water System Improvement and other Significant Activities

### **I. New Systems and Water Conservation Rebates**

- 1. Acquisition of New Water Systems.** In 2015, the PUD acquired one new water system totaling 52 active connections: the Skookumchuck water system. Adding more systems helps spread the fixed costs of the PUD over more connections providing a better economy of scale, and helps keep costs lower for all of our customers.
- 2. Water Conservation:** 16, \$50 Toilet Rebates were provided to customers in 2015.

### **II. Projects/Extraordinary Maintenance**

- 1. Sanitary Survey:** Tanglewilde-Thompson Place water system.
- 2. Consolidation of the Lew's 81<sup>st</sup>, Woods and Jenni Water Systems:** Project was completed in January 2016. It included a new reservoir and booster station, plus the mainline to connect the three systems.
- 3. Consolidation of the Sword and Platt Water Systems:** This project will merge two small water systems into a larger water system and will provide better and more reliable water service water for the customers. Construction on the project will begin in 2015. An update is on our web site in the Projects section.
- 4. Webster Hill:** This water system, with 18 connections joined the PUD in 2014. The PUD was able to obtain \$200,000 in grant funding to install permanent chlorination and replace the water mains. This project was completed in 2015.
- 5. Skookumchuck:** This water system, with 52 active connections, joined the PUD in 2015. The PUD was able to obtain a \$30,000 grant for a feasibility study and a Drinking Water State Revolving Fund Loan for \$196,294 to install permanent chlorination and service meters.
- 6. Well Pump Replacements:** Hawk Acres, Pleasant Valley, Valley Meadows, Garden Acres, Aust and Tilley Rd.
- 7. Installation of Variable Speed Drives on Well Pumps:** Hawk Acres and Pleasant Valley.
- 8. Treatment Upgrades and Treatment Maintenance:** Tracy #1 & Enslow #2 treatment was replaced and treatment maintenance to improve system operation was completed at Brockway #1, Eastridge #2 and Nisqually Highlands.
- 9. Electrical System Work:** Crowder, Nisqually Vista, Nisqually Highlands and Prairie Villa.
- 10. Chlorine Pump Replacement:** Smith Prairie.
- 11. Pressure Tanks Replaced:** LCUC 7, Crowder and Loma Vista.
- 12. Pumphouse Repairs**
  - New metal roofs on 77<sup>th</sup>, 336<sup>th</sup> 1 & 2, 366<sup>th</sup> and Fuller.
  - Metal on whole pumphouse on Christenson Muck #1 and Ivan.
  - Painted pumphouse: Tracy #1, #2 and #3.
- 13. Well Cleaning** – Granite 1 & 2, Trinity Muck 1 and Roy.
- 14. Leak and Service Line Repair** – Tanglewilde-Thompson Place, Webster Hill, Elk Heights, Valley Meadows and Crescent Park.
- 15. Emergencies** – Evergreen Vista – replacement of well pumps and electrical upgrades. Hawk Acres – Power surge fried new VFD drives and generator.
- 16. Miscellaneous Maintenance:** Removed brush at the Tanglewilde-Thompson Place Reservoir site. Replaced failed check valve in the Travis Jack reservoir. Replacement of fire hydrant at Tanglewilde-Thompson Place after car hit it.