

## **2016 Water System Improvements and other Significant Activities**

### **I New Systems, Water Conservation Rebates and Sanitary Surveys**

1. **Acquisition of New Water Systems.** In 2016, the PUD acquired four (4) new Thurston County water systems totaling 63 active connections consisting of three (3) Group B water systems, Frog Hollow Divisions 1, 2 and 3, and one (1) Group A water system, Red Tail Hawk Estates. Adding more systems helps spread the fixed costs of operating the PUD over more connections providing a better economy of scale, and helps keep costs lower for all of our customers.
2. **Water Conservation:** Five (5), \$50 Toilet Rebates were provided to customers in 2016.
3. **Sanitary Survey:** Sanitary Surveys were completed for the Crowder, Loma Vista, Prairie Villa, Sward, and Olympic View water systems.

### **II Projects/Extraordinary Maintenance (No Capital Surcharge Monies were Used in 2016)**

1. **Hawk Acres Generator Replacement:** The generator was replaced after the old generator was damaged from a power surge.
2. **Tanglewilde Generator:** The City of Olympia intertie with the Tanglewilde-Thompson Place water system was closed and a back-up generator for the wells was installed.
3. **Crescent Park Upgrades:** A pump house upgrade replaced the pipes and wellhead interface.
4. **Well Pump Replacements:** Well pumps were replaced at the Sales, Garden Acres 3, Tracy 2, Skookumchuck (well #1), Roseburg, Tracy 3, Christensen Muck 1, and Heslep water systems.
5. **Booster Pump Replacements:** The Booster Pump was replaced at the Sward water system.
6. **Treatment Upgrades and Treatment Maintenance:** Treatment was replaced at the Granite 1 and 2, Red Cloud 2, Sales, and Eastridge 2 water systems. Treatment maintenance to improve system operation was completed at the Eastridge 3 and Pickering View water systems.
7. **Electrical System Work:** Electrical system work was completed at the Webster Hill, Smith Prairie, Christensen Muck #1, Lazy Acres, Sargent, Crescent Park, and Tanglewilde-Thompson Place systems.
8. **Chlorine and Soda Ash Injection Pump Replacement:** Pumps were replaced at Crowder, Red Cloud 2, Nisqually Highlands, Prairie Villa, Evergreen Vista, and the Loma Vista water systems.
9. **Pressure Tanks Replaced:** Tanks were replaced at the Pickering View and Pleasant Valley systems.
10. **Pump House Repairs:**
  - a) A new metal roof was installed on the Aust system.

b) The Lew's 81st pump house was wrapped with metal.

c) New doors were installed on the Lazy Acres, Sward, Easterday, and Brookhaven 1 water systems.

11. **Miscellaneous Maintenance:** We installed Nisqually Highlands blow-offs, a Garden Acres pitless adaptor replacement, a Indian Crest 1 new service line, sight glass on the Crescent Park pressure tanks, sand traps at 336 1 and 2, and easement access was secured at the Ridgewood water system.