

PSA WATER COMMITTEE
ANNUAL REPORT
Saturday, June 2, 2018

Post Water System Upgrade Reserve Growth

We want to thank all PSA members for the ongoing financial commitment in rebuilding our water system reserves. In 2010, after completing all phases of construction, we had depleted our \$138k reserve funds down to \$900, still had a \$125k loan with Key Bank and were negotiating the final \$85k outstanding balance on the water system upgrade. Our current water system reserves exceed \$360k.

PUD 3 Power Failure to Pump House /Repair

Our new Kohler generator and automatic transfer switch was tested in real-time on March 12th due to PUD 3 power irregularities during a substation maintenance procedure. This caused the transformer to fail and the loss of three-phase power to the pump house. After two failed transformers and countless hours over the next five days, PUD finally resolved the problem. During this time, the generator worked flawlessly and we were able to provide uninterrupted water flow and consistent pressure to our entire community.

Recent Line Break Failures and Repairs

Overall, the water distribution system has performed well this year with the exception of two line breaks. One at a meter connection on Olympic Dr and at an isolation valve and crossing on Shore Dr.

Pump House Upgrades

A Mission Communications real-time alarm, monitoring and remote control system will be installed in mid-June. This system will provide remote monitoring on all pumps, power, generator status plus well stats, high and low system pressures and well flows. All failures or irregularities will be communicated to a predetermined contact list.

Two new ABB WaterMaster Electromagnetic flowmeters will be installed in mid-June to provide accurate source data reporting from both well heads directly to our new monitoring system.

Excavation /Drainage Upgrade

An additional 100lf of 2' deep curtain drain has been added at the base of the hill at the main well site. We have also added 1 ½" and ¾" minus gravel all around tanks and out the secondary driveway. This will help alleviate excessive standing water accumulation from around storage tanks.

DOH Sanitary Survey Upgrades

Currently making reservoir vent modification, wellhead casing vent modification and adding a vertical ladder guard on the 35k-gallon storage tank.

Summer Projects (Volunteers Welcome)

Fire Hydrant Flushing and Fire Flow Testing

Fire Hydrant Painting:

We are working closely with Central Mason on flushing all hydrants and verifying flow rates.

NFPA 291 recommends that hydrants be painted yellow, with the caps colored the following way to mark their flow:

Green = 1,000gpm to 1,499gpm (E Mason Lake Dr E and Shore Drive)

Orange = 500gpm to 999gpm (Olympic and Lakeview)

Valve Markers:

We are adding valve road markers to protect our roadside valves of potential damage from county and other large trucks. We have already had two damaged valves that were also the source of substantial water loss.

Pending Projects

Updating WA State DOH SWSMP documents, to include system overview, updating water quality, emergency response, water conservation and cross connection programs. Also to perform full review of all current and projected system upgrades, to substantiate an accurate 6-year projected budget and major equipment reserve requirements. After completion, there will also be a rate review to align with reserve requirements.

Submitted by Rick Galvin, Chairman