

JULY 2014 NEWSLETTER

The Group

PO Box 94551

Seattle, WA 98124

www.backflowgroup.org

OFFICER CONTACT INFORMATION

Chair: **Tim Cantwell**
tcantwell@woodinvillewater.com

Woodinville Water District

Phone: 425 487 4125

Vice Chair: **Tony Peredo**
tony@rainerviewwater.com

Rainier View Water Co.

Phone: 253 537 6634

Treasurer: **James Salter**
popsbackflow@gmail.com

Pop's Backflow Testing

Phone: 206 551 5174

Secretary: **Kathy Caldwell**
kcaldwell@redmond.gov

City of Redmond

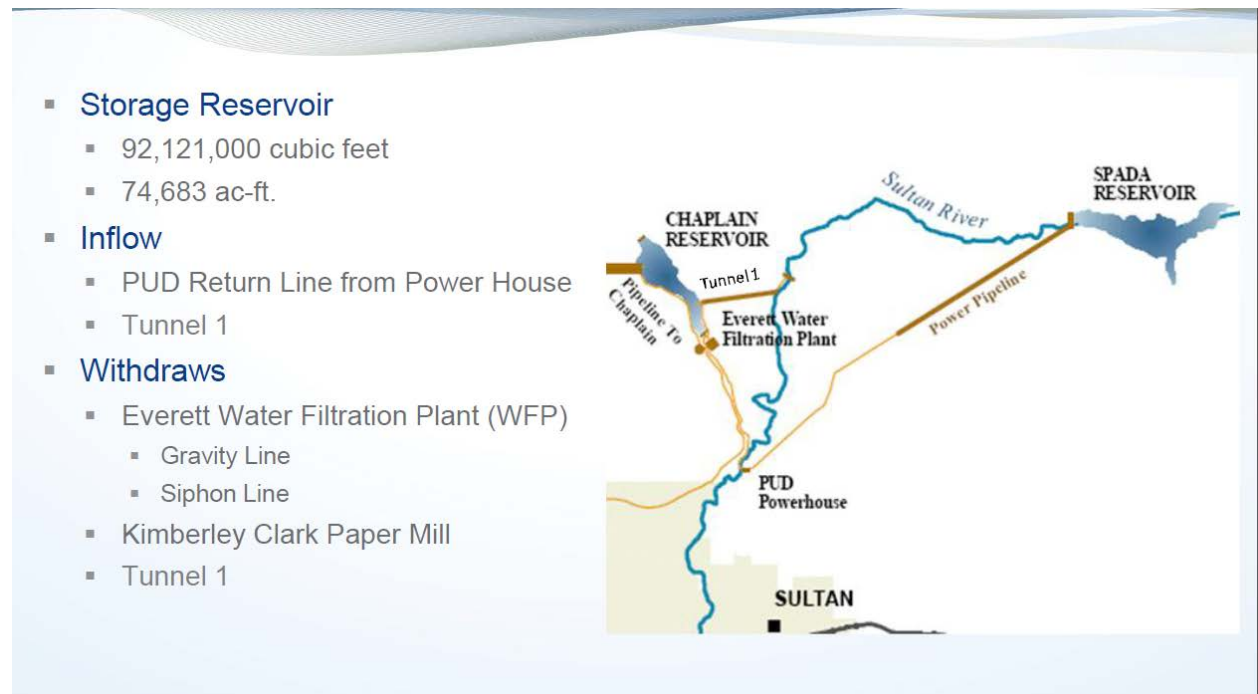
Phone: 425 556 2847

Past Chair: **Dennis McLaughlin**
mclaughlinbackflowtesting@msn.com

McLaughlin Backflow

Phone: 206 364 9531

Group members gathered at the City of Everett Public Works Department on Wednesday, July 16th at 8 AM. On a perfectly sunny morning, we loaded up into the tour bus piloted by our member Tim Markham from the City of Everett to travel up to beautiful Lake Chaplain.



The reservoir is located 4.5 miles northwest of North Sultan and 20 miles east of Everett. The lake's elevation is 648.7 above sea level.

First off, we met treatment plant operator and tour guide Ted Hikel, who has been maintaining and operating the plant since 1997. He obviously is very well versed on the makeup and operation of the facility. All in all, the trip was very educational and interesting. The citizens supplied by this water source should take a great deal of comfort knowing this facility is in good hands.

Treatment & Distribution

Drinking water filtration plant:

Everett's Drinking Water Filtration Plant uses advanced filtration processes to remove possible contaminants and takes steps to reduce the corrosiveness of the naturally soft water. Sodium hypochlorite (a chemical similar to chlorine bleach) is added to make sure the water is free of harmful organisms. Fluoride is also added for dental health purposes.

Rain and snowmelt from the Sultan Basin are collected in the Spada Lake Reservoir. The water is then transported by gravity to the Lake Chaplain Reservoir which is adjacent to the Drinking Water Filtration Plant. Public access to the Lake Chaplain Reservoir is strictly prohibited.

The water that leaves Spada Lake Reservoir first flows through the Snohomish County PUD Jackson Hydroelectric Plant to make electricity for Snohomish County PUD. The water then flows back through a three-mile-long pipe to Lake Chaplain Reservoir. When the water reaches Lake Chaplain Reservoir, part of it is diverted and returned to the Sultan River to provide in-stream flow for fish.

Distribution:

Large transmission lines ranging from 48- to 51-inches in diameter carry water from the Drinking Water Filtration Plant to Everett. As the water travels to Everett, some water providers draw their water directly from the transmission

lines. The rest of the water is delivered to large, covered storage reservoirs located throughout Everett. Other water providers draw their water from these reservoirs and pipe it to their individual service areas.

The water system works primarily by gravity. The Drinking Water Filtration Plant is located at a higher elevation than Everett so the water flows downhill in the transmission lines and builds up pressure along the way. Pump stations are located where needed.

So, with all of those factoids in mind, I've attached some pictures with brief descriptions of what we able to see. Check it out!

With only two officers present, we conducted no business. We will go over a few things at the next meeting. It will be the annual picnic at the City of Redmond, Perrigo Park, same as last year. The address is 9011 196th Ave NE, Redmond 98053.

The meeting starts at 10 AM on August 20th. Lunch will be traditionally prepared by our own Chef Dominic. The Group supplies the burgers and chicken, with basics (condiments, salads), soda and water. Feel free to bring a desert or anything you would like, but there is no obligation!