

## DAF Monthly Message

### WATER TREATMENT PLANT, NEW PRE-TREATMENT SYSTEM

May 2018

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#### ***What's the latest?***

As I've been promising the past few months, we're in the home stretch of construction now. Which means that all the walls are up for the new Water Pretreatment Plant (WPP) – also known as the Dissolved Air Flotation (DAF) facility - and exterior brick veneer is mostly done, and we're working away on the piping, inside and out (which is at various levels of completion...)



We have tested all the pipelines for both raw water and treated water; they are approved for use. As well, the 36" water treatment plant drain has been connected to the existing 48" drain and we've connected the plant's sanitary sewer line to the City's. And we have now connected all storm drains to a new catch basin that's just north of the new building.

#### ***And what else?***

We are building a cantilevered walkway to connect the DAF plant and the hypochlorite building (still need to pour some concrete and finish grading the asphalt pavement there.)

Doors to the DAF are being installed, while windows for the hypochlorite generation room and new office spaces are all in. The building's roof is done – and has been approved. All the aluminum handrails are in, as well as some of the exterior railings. And the electrical circuitry from the original water treatment plant to the DAF facility have been checked and accepted. Conduit work is nearly done. We're pulling in cabling for communications and have nearly completed design of the System Control and Data Acquisition software.

#### ***What's next?***

We will finish up the heating-ventilation-air conditioning (HVAC) ducting and set-up, and are moving on the new facility's camera systems and intrusion alarms. (And fire alarms, of course.) We'll soon be grading and shaping the access road leading to the water treatment and pretreatment facilities. And the pond to the east of the DAF will be completed.



Among the yet-to-be done work: front entrance to the DAF, complete with hand railings; metal siding insulation; roofing the hypochlorite storage and generation area and the new office space; safety railings atop the DAF; install the rest of the windows; finish installation of lighting and equipment, and then test it all.

***We're going solar (correction!)*** We ARE installing solar panels; however, it's not technically part of the DAF project and they are not at the new building. The sun-seekers will be placed atop the reservoir for the Water Treatment Plant in late summer, once DAF construction is done. The solar panel project is grant-funded, utilizes local companies, and will help off-set DAF energy usage.

***Also good to know:*** Flaggers may still be on-site at Whatcom Falls Park. Work hours are 7 a.m. to 5:30 p.m. Monday through Thursday, and until 3:30 p.m. on Fridays, with occasional Saturday work.

If you've missed any of these monthly updates, they are archived on the [City's website](#), along with more project information. From the home page, "search" Capital Projects, then DAF. You'll find the updates going all the way back to 2016 when construction first began.

***Why we're doing this:*** To make sure the City's drinking water, which is drawn from Lake Whatcom, is as clean and safe as it can be. We're building the Dissolved Air Flotation pre-treatment plant to remove as many particulates as possible from the water, in order to maximize the City's Water Treatment Plant efficiency. And because the goal for this new facility is to ensure that it will *maximize the efficiency* of our current water treatment plant in the *safest way* possible, we are leaving behind chlorine gas and moving to hypochlorite which we create on-site because it is safer.