

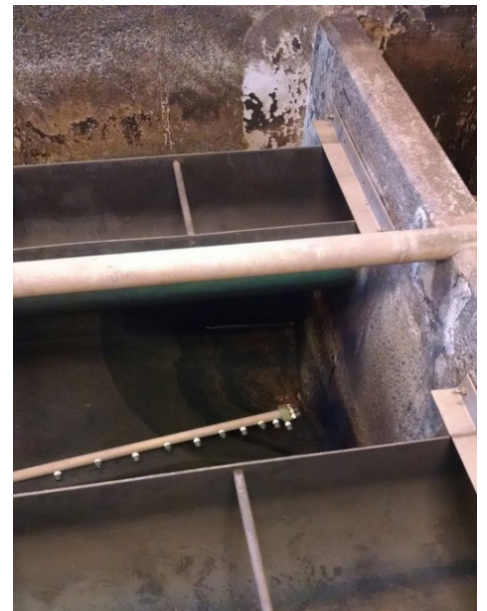
The Johnson Screens Triton® Underdrain Helps Modernize a 12 MGD Water Treatment Plant

When a water treatment plant in Davidson, NC was on the verge being left behind, Triton Underdrains helped the city get it working like new!

Background

Davidson, CO has been home to the Clyde Pickle Water Treatment Plant since 1967, and by the mid 2000s the plant was operating at its limit with flows up to 20 MGD.

While stress on the original Pickle plant was alleviated somewhat in 2013 with the construction of the Gregg W. Stabler Water Treatment Plant, the relief unfortunately proved to be only temporary. As the new plant got up and running, flows to the original plant were limited and the plant quickly began to show its age and fall into disrepair.



Challenge

As flows were cut off to the Pickle plant following the 2013 introduction of Davidson Water's new water treatment plant, decay rapidly crept in. Quickly it was discovered that loose grout from the old block underdrains had resulted in high Manganese levels that made further operation impossible.

Davidson Water began making plans for renovations to return the Pickle plant to operation, with the goal of meeting an 8 MGD production minimum.

Solution

In 2017 as part of the renovation to the Pickle plant outlined by Davidson Water, the Triton Underdrain was selected to renovate the filters of the original site.

The Triton was selected for a number of reasons, including its direct retention, low height, and integrated air scour features as well as its relatively low cost, quick installation time, and lack of grout required for job completion. After applying water headers to fix spacing and gasketing issues, the Tritons were installed.

Results

After all was said and done, the renovation project was completed on time and came in slightly under budget. Following testing and installation of the filtration media, the Pickle plant was deemed "substantially complete" and resumed operations in 2018.

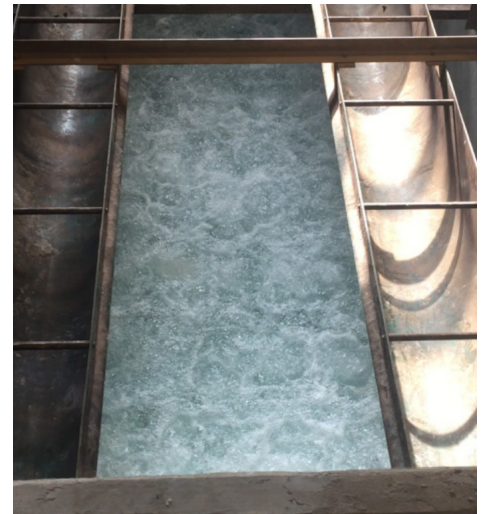
The results were so successful that Brandon Garner, Superintendent of Davidson Water, presented his experiences from the renovation at the 2018 North Carolina AWWA/WEA Conference!

Triton Underdrains Help Solve Difficult and Costly Filter Bed Issues

If you are considering a plant upgrade or new facility that will need new underdrains please let us or our local representatives know so we can show you how the Triton can add value to your project. We can also put you in touch with any of the Olney folks if you would like to talk to them directly about their Triton experiences.

Exceptional performance as a filter underdrain system utilizing Johnson Screens' world-renowned Vee-Wire® screen technology. Available in stainless steel and in PVC, Triton® underdrains offer maximum surface area to optimize filtration efficiency with the lowest headloss and backwash pump power consumption.

Triton underdrains arrive at the project site fully assembled and require no grouting, special handling or special equipment. With a simple installation and the low headloss, Triton underdrains are less expensive to install, operate and maintain.



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