

IN BRIEF:

SITE/LOCATION:

Salem, WI
Station #18 of 25 stations in the town is the second largest and is a triplex station with constant speed submersible pumps.

PROBLEM:

Weekly clogging issues with one of the three pumps in lift station #18 required man entry into the station with a minimum estimated cost of \$300 per incident.

SOLUTION:

Energenecs, Crane Pumps & Systems channel partner, suggested to the municipality that they try a Barnes 4SHVA 30HP SH Submersible pump with a non-recessed vortex impeller. Since the September, 2013 installation the lift station has been clog-free.

"We looked at other solutions like screens and chopper pumps, but they were either too expensive or too cumbersome to try. We decided to try the Barnes pump and it worked great for us!"

*- Brad Zautcke,
Utility District Manager*

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Barnes Solids Handling Meets Today's Pumping Requirements

Barnes SH Series

The Town of Salem is a small, rural community, with a population of 12,036, located in southeast Wisconsin. The municipality manages 25 lift stations.

Lift station #18 is a triplex station and was clogging weekly mostly due to flushable wipes according to multiple operators for the town. Brad Zautcke, Utility District Manager, explained that his team had to enter the station and unclog the pump by pulling out the rags with needle nose pliers.

Due to the design of the station, it required entry into the station rather than removal of the pump, which meant a confined space entry with a three man crew. Each service call became a significant drain on the town's resources and budget, each clogging maintenance trip cost a minimum of \$300. The problematic pump was located farthest from the influent channel, so operators switched the position of the pumps, but that had no effect.

The municipality worked with Energenecs, a Crane Pumps & Systems channel partner, on possible solutions. Crane Pumps & Systems provided a Barnes 4SHVA 30HP Solids Handling pump as a demo replacement for the station in September, 2013. The pump was installed a month later. The next time the pump was pulled was October, 2014 for its annual maintenance.

Today's non-biosolid laden wastewater requires new technology to keep the stream flowing. The Barnes SH Series with its non-recessed vortex impeller was the easiest, and it turned out to be the best option for Salem. It is estimated that the pump paid for itself in the first six months of operation. The pump continues to be clog-free for over a year.



BARNES 4SH PUMP



TOWN OF SALEM LIFT STATION #18