

IN BRIEF:

SITE/LOCATION:

Fishers, IN
Duplex station serving an apartment complex and residential area.

PROBLEM:

Issues at the Cedar Cove lift station included outdated controls, wet well corrosion, failed valving and pump clogging. The biggest problem was the two 15HP three phase submersible pumps that were failing on average of once a month due to clogging or seal damage.

SOLUTION:

American Pump Repair & Service, Inc. (APRS), Crane Pumps & Systems channel partner, suggested to the municipality that they try Barnes 4SHV vortex solids handling pumps. Since the August 2012 installation the lift station has not experienced a clogged pump maintenance call.

We are very pleased with the performance of the SH pumps. There have been no clogs or corrective maintenance during the first eighteen months of operation.
- Rick Farnham,
Assistant Director-Public Works



PUMPS & SYSTEMS

Applications & Systems

Barnes SH Solids Handling Solves Clogging Problems

Barnes SH Series

The Cedar Cove lift station in Fishers, IN was constructed in the early 1990's. It is outfitted with two submersible 230 volt three phase pumps and the design capacity is 180 gpm at 96 feet total dynamic head (TDH).

By 2011, the lift station was in major need of renovation. The pumps were clogging so frequently that a third pump was purchased to rotate into production slots to facilitate repairs while maintaining lift station capacity. This routine was labor intensive and costing the municipality approximately \$8,500 a year in repair costs. A renovation project was initiated. A new control panel with SCADA capability was installed, the wet well was lined and new discharge piping, check, isolation and air release valves were installed. The last and most crucial repair was left, replacing the old pumps with reliable non-clog submersibles!



BARNES 4SH PUMP

The Town of Fishers municipality worked with American Pump Repair & Service, Inc. (APRS), Crane Pumps & Systems channel partner, for a number of years. The municipality trusted Barnes submersible solids handling pumps since an initial installation was successful in one of the town's other 22 lift stations. The success of the initial installation led Rick Farnham, Assistant Director of Town of Fishers Public Works Department to rely on APRS for a solution that would decrease maintenance calls. They suggested two Barnes 20HP 4SHVB20082 with a vortex impeller to best handle the stringy sewage solids. The pumps were installed in August of 2012. The

success of the initial installation has led to a proactive program of submersible pump replacement with the CP&S product line.

The municipality has seen an overall cost reduction. They have greatly reduced service calls and maintenance costs. The third pump that was often brought into production during repair is no longer needed.



CEDAR COVE LIFT STATION