

BELZONA RESTORES WORN ARCHIMEDES SCREW

ID: 4643



PROBLEM

Erosion and corrosion caused the edges of the 58 inch long archimedes screw flights to be worn down, thus losing efficiency at Wastewater Treatment Plant.

APPLICATION SITUATION

Worn archimedes screw flights

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet SHM-14. The entire 58 inch long screw was blasted before applying Belzona 1811 to rebuild and reinforce the edges that were worn down. There is a large sections of the flights were missing, expanded metal was welded in place prior to applying the Belzona 1811.

BELZONA FACTS

The customer stated that the Belzona repair material was much less costly than replacing the archimedes screw and importantly was completed in far less time than conventional repairs would have taken. A similar application was completed in September of 2009 and was recently inspected. The screw was in the same condition as the day the application was completed more than 6 years ago.

INDUSTRY

Water / Wastewater

LOCATION

Ohio, USA

APPLICATION DATE

April 2013

PRODUCTS

Belzona 1811 (Ceramic Carbide)

SUBSTRATE

Steel

PHOTOS

1. Overview of 58 inch archimedes screw
2. Worn flights on flatbed hauler
3. Archimedes screw blasted and prepared for application
4. Belzona 1811 applied to the screw flights

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