

# BELZONA PUMP DIFFUSER PROTECTED

ID: 163

**Industry:** Water / Wastewater

**Customer Location:** Sewage Treatment Plant in Northern California

**Application:** CEP-Centrifugal Pumps

**Application Date:** September 1982

**Substrate:** Cast iron

**Products:** \* Belzona® 1311 (Ceramic R Metal) Belzona® 1321 (Ceramic S Metal) ,

## Problem

*Erosion/corrosion and cavitation*



## Photograph Descriptions

- \* The diffuser removed for repairs ,
- \* Damage on flow surface ,
- \* Close up of cavitation pitting ,
- \* Repairs in progress using a rotating jig to create the internal shape and dimension without machining ,

## Application Situation

Centrifugal pump diffuser

## Application Method

The application was carried out in accordance with Belzona Know-How Leaflets CEP-1 and CEP-2.

## Belzona Facts

This pump was in service for seven years with no damage until the unit was removed from service for other reasons. Extending the life of the pump diffuser saved the plant tremendous replacement costs.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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