

# Challenge

#### Goals

- Repair screws and troughs of effluent pumps to return system to specified productivity
- Eliminate waste hang-ups and excessive energy draw

#### Root Cause

Acidic stock waste had corroded the concrete pump sleeves, causing loss of pump efficiency. Three pumps were required to handle waste stream.

# **Solution**

#### **Preparation**

Concrete was grit blasted and rebuilt with rapid set acrylic modified concrete.

### **Application**

- 1. Prime with ARC 797 to promote adhesion
- 2. Apply ARC 791 and finish
- 3. Note: Screws were reinstalled 18 hours after application of coatings

### **Results**

#### **Client Reporte One Year After Repair**

- Effluent movement improved
- Plant reduced operation to 1 pump
- Plant reports 66% electricity savings



Three effluent pumps in operation prior to repair



ARC 791 applied to properly prepared surfaces



All 3 pump troughs coated with ARC 791

EN23593.07

09/14

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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