

Wet Well Lift Pump

Challenge

Issue

Performance loss after <12 months reduced influent flow. Option was to install additional pump to achieve flow demand.

Goals

- Return pump performance to required flow levels
- Reduce waste level & concrete corrosion rate

Root Cause

Corrosion exfoliation and scale build-up in pump was reducing flow and performance.

Solution

Preparation

- Pressure wash and decontaminate surfaces
- Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- 1. Apply ARC 858 to fare smooth pitted surfaces and rebuild worn areas to tolerances
- 2. Apply 2 coats of ARC 855 to internals for corrosion/erosion resistance
- 3. Apply 1 coat of ARC 855 externally for corrosion resistance

Results

Client Reported

- Reduced scaling and corrosion exfoliation returning pump to required flow
- ARC coating and upgrade cost 35% less than new pump purchase
- Avoidance of new pump purchase \$25.000

ARC repair:	-\$16,250
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Client Reported Savings:	\$ 8,750
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Eroded and corroded pump



ARC coated surface after proper surface preparation

\$=USD



Pumps ready for delivery

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

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