

# Chesterton 442C Cartridge Split Seals Switch Results in Easy Installation

## Challenge

### Background

A water plant for a Canadian town needed a more reliable sealing solution for four potable (lake) water pumps. The plant was using a competitor's double seal with oil lubrication that had a system cost of \$60,000 US. The seal experienced leakage issues and because it was lubricated with oil, there were serious environmental concerns about oil leaking into the potable water supply.

## Solution

### Product

The double seals were replaced with **Chesterton 442C Cartridge Split Seals** with a restriction ring. The **442C** was selected because of its simple set up (no pump dismantling); because it had no lubrication system and thereby eliminated the environmental worries; and was easy to replace.

## Results

### ROI

If the split seal option had been selected from the start, the plant would have saved over \$60,000 US. While the double seals had required 48 hours to install, the Chesterton split seals were installed in only two hours.

The seal replacement labor comparison:

<b>Double Seals</b>	vs.	<b>Split Seals</b>
48 man hours	vs.	2 man hours



*The double seal solution was not effective and posed environmental issues.*



*The 442C Split Seal was installed very simply.*



*The 442C Split Seal completed installation.*