

CASE STUDY

Water Supply, Global Drinks Manufacturer (UK)

Client: Global Drinks Manufacturer

Location: Scotland

Product: BoreSaver Ultra C

Project Description: Rehabilitation of boreholes supplying water to manufacturing plant

Keywords: BoreSaver Ultra C, well rehabilitation, iron oxide, iron bacteria contamination



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One of Geoquip’s partners was asked to rehabilitate a borehole that supplied a constant water supply for the Scottish manufacturing plant of a global drinks brand. Production managers had noticed falling yields and increased production costs. Symptoms indicated a clogging of the aquifer caused by a build-up of silt, exacerbated further by iron bacteria contamination, an acknowledged problem in the area.

An investigation programme was implemented and a CCTV survey carried out after the submersible pump was removed. This revealed the borehole had silted up from its original depth of 309 meters to 291 meters and there was extensive iron oxide clogging on the pump and screens. Sampling of the water confirmed the presence of iron bacteria.

After removing the silt by scrubbing with a stiff wire brush and airlifting purging, a careful treatment and purging regime using BoreSaver was carried out over a 2 day period with on-site Hydrogeologists monitoring water quality. Following neutralisation the borehole water was pumped to waste and pumping trials were performed. Using BoreSaver had returned the borehole to its original condition with increased yield, reduced drawdown and reduced pumping costs.



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