

Monsters protect pump station in Mossie, Scotland

The Mossie sewage pump station, operated by Scottish Water, has been working since 1961 and comprises of three submersible pumps. Over the last few years, Mossie has experienced a heavier than usual volume of rags and solids flowing into the station causing significant problems, especially during heavy storms.



“The grinders have made a difference to both our operational and overtime costs, freeing up a lot of our operator time to concentrate on other sites.”

Graham Black, Area Manager, Scottish Water

The challenge

The Mossie sewage pump station had been receiving a heavy volume of rags and solids. This debris was especially problematic during heavy storms, leading to pump blockades during peak capacity periods and causing sewage to overflow in and around the pump station. This required the operators to attend the site on a regular basis to uplift and unblock the submersible pumps and also clean up the spillages – a time-consuming and unpleasant task. Scottish Water was looking for an effective, reliable solution that would immediately resolve the issues.

The solution

After a thorough assessment two Channel Monsters were installed in the wet well, each on a guide rail system to facilitate easy installation. The Channel Monster features a perforated screening drum, which allows small particles to pass through, while capturing and feeding the larger debris into a dual-shafted grinder. This means that the Channel Monster can shred solids effectively while maintaining high flow rates.

Customer benefit

Since the installation of the two Channel Monsters in March 2014, Mossie has seen a massive drop in the number of pump blockages, freeing up operators from having to attend site to unblock the submersible pumps. In addition to the reduction in unscheduled maintenance, the installation of the Channel Monsters has allowed Scottish Water to cancel other planned capital investments, which were no longer required.

The Sulzer difference

Channel Monster™ sewage grinder features high-flow screening drums that prevent bypass of unshredded solids. The perforated drum allows high flow while feeding larger debris to a dual-shafted grinder, thus protecting pumps and other critical equipment.

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