

## CASE HISTORY

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OIL AND GAS  
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# Toveko Filters

## Tertiary Filtration at WRG Waste Management



WRG is one of Europe's largest independent waste management companies, and the largest in the UK.

WRG was previously known as Shanks, which started life in the late 1800's as a construction company based primarily in the West of Scotland. Waste management activities gradually increased and in 1986, the then-named Shanks & McEwan, acquired London Brick Landfill and an enormous landfill capacity in the northern Home Counties of England. This produced the foundation for further growth. WRG take pride in offering waste solutions tailored to their customers' needs and handle a huge range of waste from laboratories, heavy manufacturing and houses.

At WRG's Stewartby site, leachate from the huge landfill area is treated in a dedicated treatment plant, which has to conform to stringent discharge requirements. As part of a recent expansion of the plant, a model S-450 TOVEKO continuous gravity sand filter was included to remove residual suspended solids prior to the treated leachate being discharged.



**TOVEKO model S-450 filter showing GRP control panel with double door**

The leachate arising from the site contains up to 10,000mg/l of chloride, which means that standard grades of stainless steel are unsuitable for use, since they would be subject to rapid corrosion. The filter was therefore manufactured in SAF 2205 duplex grade stainless steel, which is suitable for use with up to 30,000mg/l chloride.

The filter was supplied with a wash water supply pump pre-mounted onto the filter prior to testing and delivery to site. This means that installation and start-up is very quick and simple. Once located on a flat concrete slab, it requires power, compressed air and pipework to be connected and is then immediately ready for start-up which, once the filter sand is loaded, is normally complete within one day.

Commissioning of the installed filter was in early 2002, since which it has operated non-stop to provide a “safety net” for WRG’s plant. It was described by WRG as “the best piece of equipment in the whole plant”.



**Filter view from ground level**

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