



Mono® NOV Muncher® In The Pipeline For United Utilities

A drive to find a more reliable and cost effective solution to safe handling of untreated sewage has led United Utilities to install Mono NOV's pipeline TR Muncher at its Blackburn wastewater treatment works.

Prior to the installation, United Utilities was experiencing equipment blockages, caused by a high percentage of rag content in the sludge, imported by road tankers from outlying rural treatment works. Inlet screens had been installed to protect the equipment from blockages, but they provided only a partial solution.

The twin shaft, low speed, TR Muncher is installed on the tanker discharge pipeline, connected to a centrifugal pump and is reducing turnaround time on off-loading by preventing blockages.

Macerating the primary thickened sludge at a rate of 70m³/h, the twin shafts operate at different speeds, promoting a tearing action on the solids, whilst the low cutter tip speeds ensure maximum efficiency and minimum noise levels. The layback cutter stacks are set at an angle to the incoming flow to reduce the possibility of damage by rogue materials, any rejected material drops clear of the shafts. These features are some of the

low maintenance advantages of the unit. Moreover, the pull out cutter stack allows easy removal without disturbing the pipeline.

The design of the Muncher incorporates an intelligent auto reverse sequence controller, which enables the Muncher to unblock itself and restart automatically, without the need for the tanker drivers to intervene.

Mono provided a single source solution, manufacturing, supplying and installing the equipment. Their after-sales service, that includes a very efficient maintenance and Service Exchange Program, was also an added benefit to the customer.

Muncher:	CT203CBT1B2
Product:	Tankered sludge
Capacity:	60m ³ /h
Drive:	2.2 kW motor



Mono Pumps Ltd
Martin Street, Audenshaw
Manchester, M34 5JA England
T. +44 (0)161 339 9000
E. info@mono-pumps.com
www.mono-pumps.com

Mono® **NOV**

One Company, Unlimited Solutions