

RECYCLING AND REINSTATEMENT INITIATIVES WORKING GROUP
WEST MIDLANDS HAUC
INFORMATION SHEET

Promoter of trial	Wrekin Construction Ltd, Shifnal, Shropshire
Contact	Geoff Martin 01952 468005
Nature of trial	<p>Trial of Trenchmix by Wrekin Construction Ltd for sewer backfill in Worcestershire in Autumn 2000.</p> <p>Trenchmix is a mixture of recycled fines, pfa and a small amount of lime. More information can be found on Trenchmix on the UKQAA web site: www.ukqaa.org.uk.</p>
Programme details	<p>Trenchmix was used on a section of the Menithwood and Eardiston Sewerage Contract (C3678), located in rural Worcestershire. The work involved the construction of a public sewer within the two villages. The section chosen for the trial is situated on the A443 in Eardiston between manholes E5.1 and E5.2. This area was chosen because it was the most suited, as it is subjected to a large array of axial loading; this includes loads from cars, vans and HGV's.</p> <p>The run between E5.1 and E5.2 is constructed of 150mm diameter vitrified clay pipes, the trench was approx 35m long, 2.6m deep and 0.6m wide. The Trenchmix was supplied by Shropshire Recycling Services from their Bridgnorth depot produced in a mixing plant supplied and operated by Wrekin Construction Ltd. 148 tonnes of the product was delivered and stored within the site compound and covered with polythene.</p> <p>Using an ATLAS 1404 360 degree wheeled excavator, the Trenchmix was loaded onto a 6 tonne dumper and transported to the designated test area. The Trenchmix was placed into the trench using the dumper, and was then levelled by hand and compacted in 200mm layers. A suitable reversible plate compactor was used in the lower sections of the trench to compact the Trenchmix in 6 number passes, and a Bomag BW80 ADH was used for the upper sections. During this work, the weather was mild, with the odd showers and the temperature was approximately 15 degrees Celsius.</p> <p>Once the Trenchmix had been placed and compacted to the specified level, the gang then proceeded to lay a 110mm layer of road base (in two layers) directly onto the Trenchmix, followed by 60/40 of BC/WC. The road base was laid on this section as the specification, the intention was to construct a further section without the provision of the road base, however, this did not take place do to contractual matters.</p>
Results	The gang laying the Trenchmix found it very easy to use and would use it rather than type1. Subsequent to completion, performance has been good with no problems reported.