

PIPE JACKING CASE STUDY

Ferneigair Wastewater Treatment Works



www.pipejacking.org

PROJECT	Ferneigair WwTW
CLIENT	Scottish Water/Galliford Morgan JV
CONTRACTOR	A E Yates Trenchless Solutions Ltd
PIPE SUPPLIER	F P McCann
TUNNELLING MACHINE	Backacter Shield
VALUE	£257,000



PROJECT OVERVIEW

A wastewater treatment works at Ferneigair in Scotland commissioned by Scottish Water required a 5km gravity outfall pipe to complete its construction.

DESCRIPTION OF WORKS

A strategic 165 metre pipe jacked crossing under the M74, at Ferneigair, south of Hamilton, Scotland provided a sleeve through which the permanent MDPE outfall pipe was inserted, transferring final effluent from the new treatment works to the River Clyde.

The crossing was constructed with 1200 mm diameter steel banded concrete jacking pipes using a backacter shield driving through ground conditions consisting of soft to firm brown clay with partings of silt.

The M74 has strategic national importance and the pipe jacking proposal required the approval of Transport Scotland. Monitoring established that there was no movement of the carriageway throughout the works.

CO₂ SAVINGS

CO₂ savings of the pipe jacking element compared to open cut construction were 45% for the 1200mm diameter drive. Source: pipejackingco2calculator.com

FURTHER INFORMATION: www.aeyates.co.uk

