

## Highways Drainage Monmouthshire, Wales UK.



SmartDitch Installed along the side of the road



The SmartDitch flows into a culvert at a  
passing place



SmartDitch is sealed against the concrete face

The SmartDitch Trapezoidal Ditch Liner System is a virtually leak-free channel lining system engineered to control and direct the flow of water or critical fluids. Made from proven UV resistant HDPE, SmartDitch's unique corrugated design helps regulate the flow of water from flat to steep grades so that the drainage and flow patterns designed are maintained. SmartDitch Trapezoidal sections are light weight and come in lengths that make it easy to handle and install.

The County of Monmouthshire suffered a period of extreme weather between December 2013 and February 2014. Severely saturated ground became unstable and many embankment slips occurred which gave rise to the closure of a rural carriageway.

The highways maintenance department of Monmouthshire County Council needed to improve surface water drainage along a stretch of the affected road. A Concrete lined ditch was originally specified, but was considered too impractical and time consuming to install.

A 12" deep Trapezoidal SmartDitch was used for the ease of installation and savings in time and materials. The engineers wanted a durable and leak proof material they could obtain and use quickly to prevent further saturation and which could cope with the gradient and curvature of the road.