

## Water supply system installation

## Case Study

### Replacement water distribution pipe work to country Estate...

National Trust seeks to address the failings of an aged pipe work system: -

- High operating costs
- Hillside site with high and low pressure issues
- Poor control over existing system
- High leakage levels

Additional issues to be managed: -

- Site of Special Scientific Interest
- Area of archaeological interest
- Highways, bye-ways and other public-rights-of-way transect site
- Solution to be ecologically sound – spring water available for livestock, area of eco-farming



### The solution

- New water system, featuring
  - Valves to all branches and at regular intervals on distribution pipe work to improve control over the system
  - Metered system for billing and as an aid to leak detection
  - Pressure reducing valve to moderate water pressure in low lying areas
  - Rationalised pipe work, sized to minimise frictional losses and improve water pressures in highest areas
  - Fire fighting provision in case of heath fires
  - Separate systems with Water Regulation approved connections to the mains water system to enable use of spring water for stock watering

**...a manageable water system – an investment for future low running costs**

*...providing solutions*

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