



## VARTRY TUNNEL REHABILITATION AND UPGRADE

Detailed options assessment for major water transmission project

**Client: Dublin County Council**

### SUMMARY:

**Value:** €20.9 million

**Status:** Preliminary Report

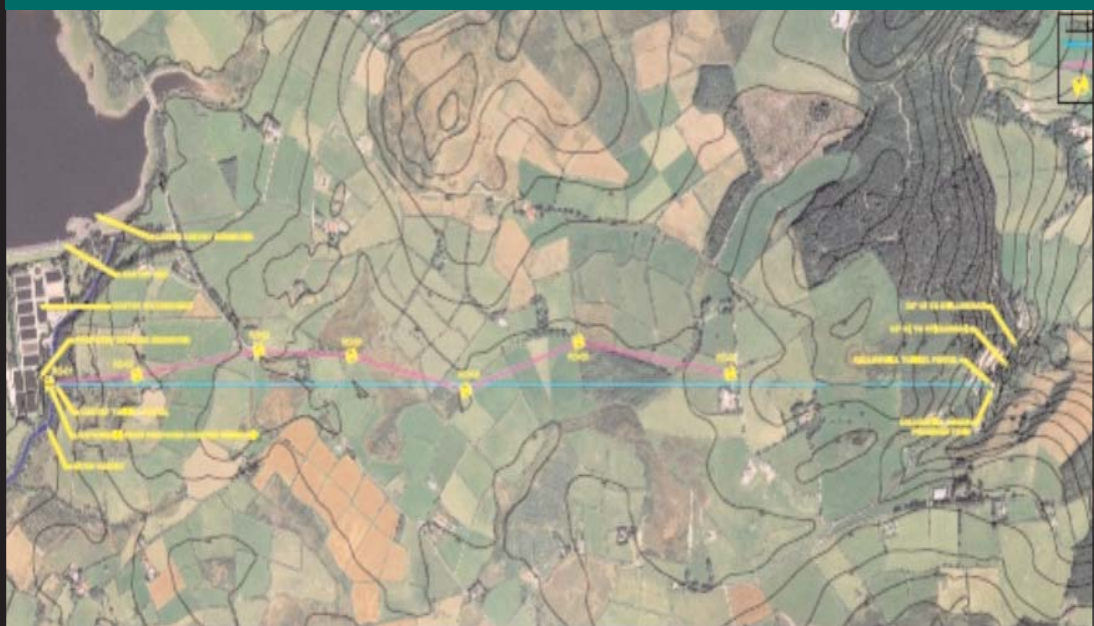
### Services Provided:

Project Management  
Structural Assessment  
Options Assessment  
Whole life costs, value for money  
Preliminary Report

The Vartry Water Treatment Plant, WTP supplies approximately 80ML/day of treated water to Dublin and to a considerable area of North Wicklow. This constitutes approximately 16% of the total volume of water supplied to the Greater Dublin Regional Water Supply System. The Vartry System is the only source of supply to North Wicklow, as well as being the primary source of supply for a considerable portion of the administrative areas of Dun Laoghaire – Rathdown County Council and Dublin City Council.

The objective of the Vartry Tunnel Rehabilitation and Upgrade Project is to secure the transfer of treated water through the tunnelled conduit between Vartry WTP and Callowhill BPT, known as the Vartry Tunnel. The 4km long tunnel was constructed in the 1860's and recent inspections had confirmed the need to carry out extensive rehabilitation works.

Nicholas O'Dwyer following the completion of a detailed multi-criteria options assessment for the project submitted the detailed Preliminary Report in early 2005.



**Nicholas O'Dwyer**  
CONSULTING ENGINEERS