

Tunnel Dewatering - Sydney



October 2004

Iron Oxide films in gravity drains, O.W.S. and collection sumps in power cable tunnels.

Features of this systems include:

- The volume of water collected is significant.
- The flow is continuous.
- Sumps are small.
- Oily Water Separator (OWS) is in place
- Discharge water is monitored for EPA compliance.

Standard approaches such as chlorine for the removal of the existing residues and ongoing control were a complete failure.

Fully Automated System

The project uses a fully automated treatment system to apply BoreSaver Ultra C and BoreSaver Liquid to key control points. This has proved highly successful and maintained complete residue control throughout the tunnel, Oily Water Separator, sumps and discharge point



Project Details

NOTES Tunnel length 3.5 km
Tunnel Dia 3.5 metre
Pump out rate 6l/s from sump
Avg flow rate 12,500l/hr through O/WS
Rising main from sump 100 dia dicl
Ground water sump @ CH 620
Influent approx 3.4 l/s continuous
Sump duty capacity 1,800 litres