

The water pipeline has been located in the cleared corridor along the Hydro easement in the Trevallyn Reserve as much as practicable. However, there are sections of pipeline outside of the cleared area where obstacles dictate. One such area is the rocky pinnacle of the hill. The route has even avoided individual trees in some locations. Limited flexibility in the exact route needs to be maintained to allow micro-management of obstacles and threatened species on the ground to minimise the environmental impact whilst maintaining a relatively straight alignment to avoid the need for large concrete anchor blocks.

The disturbance width of 20 metres is already extremely tight for the construction of an underground pipeline. However, there is an opportunity to reduce the width of the disturbance if the pipeline is built above ground in this area as the room for the trenching spoil storage would not be required. Gunns is prepared to pursue this option with PWS during detailed design. Small sections of the easement can be narrower than 20 metres to assist in the management of threatened species and impacting infrastructure but access is required from both directions to 'reach' into the narrow alignment. The application of this option will be quite limited and over distances of less than 15 metres.

There can be no trees along the 20 metre easement because of the risk of roots damaging the pipeline. This gives a clearance of less than 10 metres to large trees. However, the understorey can be allowed to return during the operation stage.

If the pipeline were run above ground up the steep rocky sections to minimise the site impact, it would be on concrete footings leaving space for the passage of animals.

An access track does not need to be maintained along the pipeline in Trevallyn reserve, however, maintenance access is required just in case of an unexpected maintenance requirement. Should a maintenance need arise along this section of the pipeline then a track would have to be pushed into the area in question. The probability of this occurring is low.

The shape file showing the location of the balance tank is attached. The centroid coordinate of the tank is 5412700mN, 508082mE. Coordinates based on MGA (GDA 94) zone 55.