

## Airport Link - Groundwater Monitoring Program



*Development of a comprehensive groundwater monitoring and assessment program*

### Client: Thiess John Holland

E3 Consult was engaged to develop and complete an ongoing contaminated groundwater monitoring program on behalf of Thiess John Holland (TJH) as part of the Airport Link Project. E3 completed the installation and sampling of over 60 wells across the tunnel alignment. Quarterly groundwater monitoring was completed in accordance with the conditions of approval for the project to assess the impact of both mined (roadheader) and bored (tunnel boring machine) area.

E3 provided an assessment on groundwater quality and the potential for impacted water migration as a result of the tunnelling or dewatering activities. This assessment was provided to comply with the Coordinator General Conditions and to manage potential risks to the community and local environment. The assessment included the development of 2 hydrogeological models to determine the likely migration pathways of hydrocarbon plumes.

The involvement of E3 staff in this project demonstrates our skills in the following areas:

- Thorough understanding of hydrogeological condition and contaminant migration;
- Practical assessment and management of environmental risks associated with large infrastructure projects; and
- Effective reporting to satisfy regulatory conditions.

PH32 - Airport Link GW Installation and Monitoring Program