

**MELBOURNE METRO RAIL PROJECT ENVIRONMENT EFFECTS STATEMENT**  
**INQUIRY AND ADVISORY COMMITTEE**

**MMRA TECHNICAL NOTE**

**TECHNICAL NOTE NUMBER:** 023

**DATE:** 9 August 2016

**PRECINCT:** Precincts 1-8

**EES/MAP BOOK REFERENCE:** Locations of attached boreholes shown on Geological Long Section – contained within Appendix A of Technical Appendix P – Ground Movement and Land Stability

Borehole and cone penetration test locations shown on attached borehole location plan

**SUBJECT:** Supplementary to Technical Note 008: soil and rock bore logs and geological long sections

Additional hydrogeological reports received

**NOTE:**

1. Technical Note 008 responds to item 8 of the IAC request dated 13 July 2016:  
*In relation to groundwater, please provide full details of investigation soil and rock bore logs and details of installed groundwater monitoring wells.*
2. Attachment A to Technical Note 008 refers to 36 soil and rock bore logs, and Attachment B to Technical Note 008 refers to geological long sections based on 270 additional bores. This information is attached to this Technical Note.
3. This Technical Note includes a correction to TN008 in that the geotechnical investigations are based on 241 bores, which were the total number of boreholes drilled during Stage 3 of the geotechnical investigations relating

to the Melbourne Metro project undertaken by Golder Associates. These include the original 36 boreholes which Attachment A relates to.

4. In light of the further information available, and to assist the IAC, Golder Associates were requested to prepare an update to the relevant technical reports exhibited in the EES. To this end, Golder Associates have prepared the following reports based on their findings from these geotechnical investigations:
  - a. Interpreted Hydrogeological Setting EES Summary Report dated 29 July 2016;
  - b. Regional Groundwater Numerical Modelling EES Summary Report dated 1 August 2016;
  - c. Interpreted Geological Setting EES Summary Report dated 3 August 2016; and
  - d. Interpreted Contaminated Land EES Summary Report dated 5 August 2016.
5. These reports have been provided to the IAC herewith and will be accessible on the MMRA's website at the following link:  
<http://metrotunnel.vic.gov.au/ees>.

**CORRESPONDENCE:** No correspondence.

**ATTACHMENTS:**

- A. 36 soil and rock bore logs (as referred to in Technical Note 008).
- B. Geological long sections based on 241 bores (as referred to in Technical Note 008).