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SYDNEY NSW 2000

Project 35470.09  
24 August 2021  
Dem:pc

Attention: Mr Stephen Girdis

Sent by Email [stephen.girdis@gmail.com](mailto:stephen.girdis@gmail.com)

**Geotechnical Comment**  
**Proposed Jetty Extension**  
**967 Barrenjoey Road, Palm Beach**

Further to our previous report 35470.08.R.001.Rev1 dated 26 August 2019, Douglas Partners Pty Ltd (DP) has been asked to comment on the geotechnical issues relating to proposed extension of an existing jetty and floating pontoon at the above property. In particular, comment is required regarding the potential disturbances of any acid sulfate soils (ASS) underlying the site.

It is understood that the existing wharf is to be extended by approximately 8 m to the west to match the length of the existing jetty structures for the adjacent properties to the north and south. It is expected that the minimum water depth at low tide for the extended structure will be approximately 2.5 m.

Reference to The DLWC 1:25 000 Acid Sulfate Risk Map for Broken Bay (Edition 2, 1997) indicates that the proposed jetty extension will be constructed over and within estuarine bottom sediments. The mapping also indicates a high probability of ASS being encountered at the site.

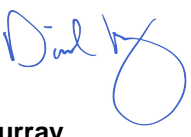
DP understands that the pylons for the existing structure to the north (967 Barrenjoey Road) were driven to around 2 m to 3 m depth into the estuarine soils without encountering bedrock, and without significant disturbance to the estuarine soils. It is expected that similar construction conditions will prevail for the proposed jetty extension works at the subject site.

Provided the new pylons are driven into position and no estuarine soils are brought above the water surface, DP expects that the construction of the proposed jetty extension will not adversely impact any acid sulfate soils underlying the site.

We trust that these comments are sufficient for your present requirements. If further assistance is required, please do not hesitate to contact the undersigned.

Yours faithfully

**Douglas Partners Pty Ltd**

  
**David Murray**  
Senior Associate

Reviewed by

  
**John Braybrooke**  
Principal