



**Job Number:**  
**QP 00278B**  
12<sup>th</sup> November, 2021  
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**GEOTECHNICAL | CIVIL | STRUCTURAL**

The General Manager  
Northern Beaches Council  
Pittwater  
PO Box 82  
**MANLY NSW 1655**

**95 WIMBLEDON AVENUE, NORTH NARRABEEN**  
Acid Sulfate Soil letter for proposed swimming pool

This letter is to address the requirement for Acid Sulfate Soils reporting to accompany a submission for Development Application with Northern Beaches Council – Pittwater, at the subject address. Council's mapping shows that the subject property being mapped as possible Class 3 Acid Sulfate soils as per Pittwater Acid Sulfate Map.

The proposed works will comprise of the installation of a new prefabricated swimming pool near the south eastern rear corner of the existing residence and deck. The proposed swimming pool is approximately 2.9m away from the eastern side boundary. Excavation is only required for the proposed swimming pool of approximately 1.6 metres in depth. Details of the proposed alteration and additions are shown on the plans prepared by Site Design + Studios, Drawing No: 7017, Pages L-01 to 05, Issue D and dated 24<sup>th</sup> August, 2021.

The site is underlain by quartz sand typical for this area. We have previous experience with the typical soil profile of the subject property and given the shallow nature of the excavation for the proposed swimming pool it is our opinion these sands lack both the reducing environment and the Fe required to generate acid sulfate conditions. In addition no Jarosite was observed in the profile. No fills or river sediments that can provide the required conditions for the formation of Acid Sulfate Soils are present on the site. No further testing or risk management is considered necessary.

**HODGSON CONSULTING ENGINEERS PTY. LTD.**

A handwritten signature in black ink, appearing to read "Garth Hodgson", is written over a light grey horizontal line.

**Garth Hodgson MIE Aust**  
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**Civil/Geotechnical & Structural Engineer**

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