

April 29, 2022 Project No. 31751/6365D-G Report No. 22/1500 LWI/ms

Addisons Level 12 60 Carrington Street SYDNEY NSW 2000

Attention: Lee Cone

## SUBJECT: GEOTECHNICAL INVESTIGATION, ACID SULFATE SOIL ASSESSMENT & PRELIMINARY LANDSLIP ASSESSMENT - SUPPLEMENTARY REPORT 72 CARRINGTON PARADE, CURL CURL

We refer to the Geotechnical Investigation, Acid Sulfate Soil Assessment & Preliminary Landslip Assessment (Report No. 18/3658) prepared by STS GeoEnvironmental Pty Ltd and dated December 2018.

This letter report provides details to address the matters for consideration of clause 6.2 of the Warringah LEP. By way of supplementary commentary, following the investigations and conclusions reached in the earlier report, we make the following comments.

- a) No groundwater was observed in the boreholes during the site drilling and up 6 days later. Based on the subsurface conditions observed in the boreholes, the proposed excavation will not encounter groundwater and will be within aeolian sands which are relatively permeable soils. Therefore, the proposed works are unlikely to alter existing drainage patterns. Soil instability in this area is normally associated with the clayey soils on the flanks of slopes. Properly retained cut slopes in sands are not prone to become unstable.
- b) The effect of the development on the likely use or redevelopment of the land.
  Based on STS's experience, existing basements in buildings are not an impediment to the redevelopment of a site in the future.



- c) The quality of the fill to be excavated. During the geotechnical investigation (see Report No. 18/3658), two (2) boreholes were drilled. The subsurface conditions comprised topsoil overlying natural sands. No anthropological materials were noted during the fieldwork. There were no potentially contaminating activities noted on the site itself or adjacent sites. Other than Acid Sulfate Soils, natural soils and rocks excavated in the Sydney basin are suitable for engineering reuse. STS see no reason why soil excavated on this site would be unsuitable for beneficial reuse as fill on another site.
- d) Provided the excavation support has been designed by a competent structural engineer using the parameters provided in Report No 18/3658, there is unlikely to be any changes to the amenity of the adjoining properties.
- e) The source of any fill materials and the destination of any excavated material. Given that there is a basement excavation, STS sees no reason why soils would be imported. The destination of the excavated material is normally dependant on the needs of external locations at that time. If a reuse cannot be found on another site, the materials will be taken to a licenced landfill.
- f) During the geotechnical fieldwork, no relics were observed.
- g) STS is unaware of any nearby watercourse, drinking water catchment or environmentally sensitive areas.

We trust this meets with your requirements. Should you have any questions, please contact us.

Yours faithfully

Laurie Ihnativ Senior Geotechnical Engineer STS Geotechnics Pty Limited