

Site Report 12

Argentum Group
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Attention: Andreas Pelosi
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GEOTECHNICAL INSPECTION PROPOSED RESIDENTIAL DEVELOPMENT 195 – 197 SYDNEY ROAD, FAIRLIGHT, NSW

As requested by Mr Andreas Pelosi of Argentum Group, our Senior Geotechnical Engineer, Mr Michael Egan, visited the above site on 20 July 2023 to inspect the stability of a sandstone cut face exposed between the subject site and neighbouring property to the west (No. 199 Sydney Road). This site report should be read in conjunction with our geotechnical investigation report (Ref. 33708PNrpt dated 29 January 2021) and previous site reports carried out during bulk excavation works between September 2021 and July 2022.

Prior to our arrival on site, excavation within the subject site had been completed and the building fit out was ongoing. The sandstone cut face located between the subject site and neighbouring property to the west had been excavated in a roughly east-west direction and ranged in height between approximately 1.8m and 2.2m above neighbouring surface levels; see Plate 1 below. Based on a visual and tactile assessment with a geopick, the cut face exposed slightly weathered sandstone bedrock of medium strength. Two sub-vertical joints trending (i.e. striking) at approximately 162° (Joint No. 1) and 132° (Joint No. 2) were further exposed in the cut face, however these joints did not appear to daylight within the cut face above the neighbouring carpark; see Plate 2 below. Lastly, some minor loose sandstone gravel and cobbles were scattered across the crest of the cut face.

The previous architectural design drawings indicated that excavation to design lines within the subject site was to the boundary with No. 199 Sydney Road in most areas, resulting in the formation of a plinth of sandstone bedrock between the proposed basement and neighbouring surface levels. From our ongoing inspections during excavation, we subsequently recommended that the northern end of the plinth, where it was narrowest and the bedrock quality poorest, would need to be removed down to the driveway level within No. 199 Sydney Road, or down to the point where the plinth widens and/or the bedrock was sufficient for the plinth to be considered 'stable' in the long term.





From our most recent site inspection on 20 July 2023, we consider that the excavation along the western site boundary between approximately Grid Line L and R has been carried out in accordance with the advice presented in our previous site reports.

We have received updated architectural drawings (Project No. 20025, Drawing Nos. A01.00^E, A01.01^C, A01.02^B, A01.03^C, A01.04^B, A01.05^B, A01.06^B, A03.01^C, A03.02^D, A04.01^C, A04.02^C & A08.01^B) prepared by Mostaghim. From a review of the architectural drawings, a new sandstone clad wall is proposed along the common boundary in the long term. Provided all loose material is removed from the crest of the cut face, we recommend that the cut face within the subject site and extending into the neighbouring property (No. 199 Sydney Road) may remain unsupported and the new sandstone clad wall constructed. This assumes that no activities either within or surrounding the site which may affect the stability of the cut face are carried out. If this is the case, further geotechnical advice should be sought from this office.

Should you require further information please don't hesitate to contact the undersigned.

Regards

For and on behalf of
JK GEOTECHNICS

Michael Egan
Senior Geotechnical Engineer

Reviewed By:

Nicholas Smith
Senior Associate | Geotechnical Engineer
NSW Fair Trading RPE No. PRE0000017

Encl. Plates 1 and 2

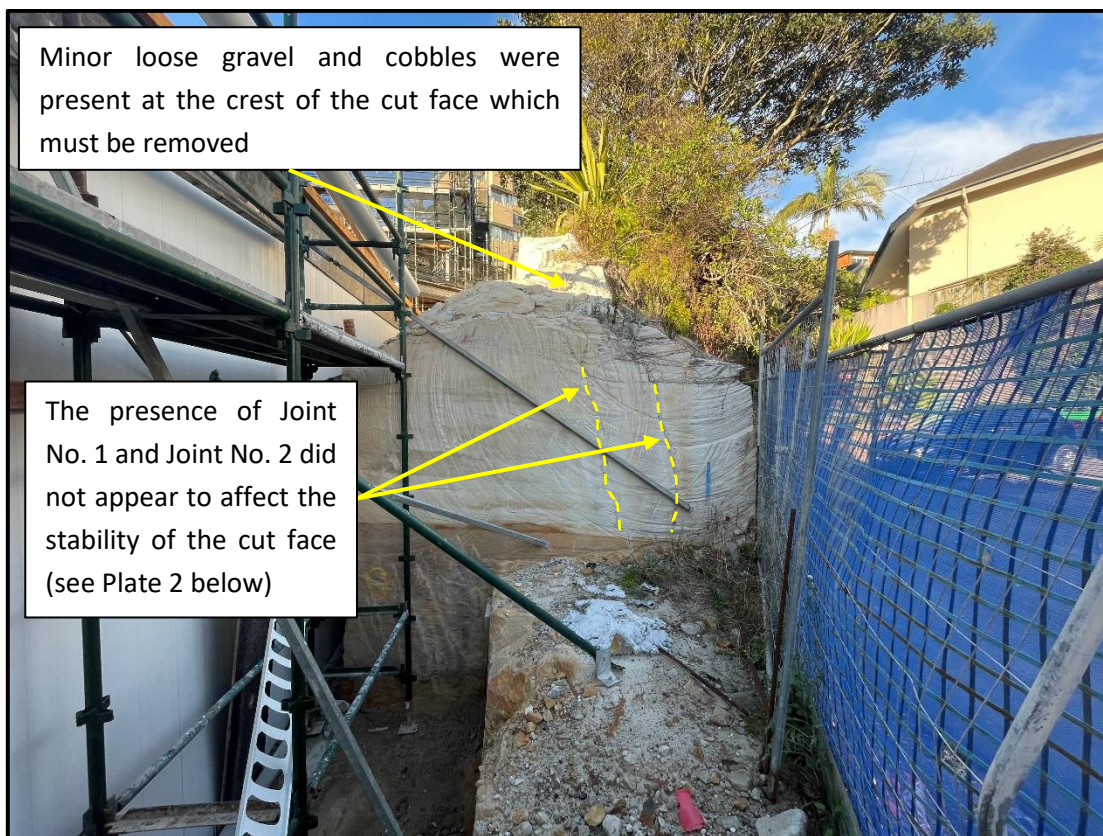


Plate 1 (looking south)



Plate 2 (looking north-east)