

10<sup>th</sup> August 2023  
Ref.: ANTT0396-GEO AC

**Antonio Todarello**  
731 Great Western Highway,  
Faulconbridge NSW 2776

**Re: Slope Risk Assessment  
Revised Stormwater Engineering Design**

To Whom It May Concern,

This review letter was issued in response to the revised Civil Stormwater Management Plans issued by **CivilCol Consulting Pty Ltd** (Job No.: **2021\_246**, Drawing No.: **C 01** – Rev.: 02 – Date: 20.5.23, **C 02** – Rev.: 03 – Date: 24.7.23, **C 03** – Rev.: 04 – Date: 24.7.23, **C 04** – Rev.: 02 – Date: 20.5.23, **C 05** – Rev.: 02 – Date: 20.5.23, **C 06** – Rev.: 04 – Date: 24.7.23, **C 07** – Rev.: 04 – Date: 24.7.23, **C 08** – Rev.: 02 – Date: 20.5.23) for proposed addition and anchillary development at 731 Great Western Highway, Faulconbridge NSW 2776 for Antonio Todarello.

The revised drawings and notes, and stormwater design report issued by CivilCol Consulting Pty Ltd were reviewed by a senior geotechnical engineer from Greywacke Geotechnics (Greywacke) and the review was conducted with the aim of identifying any potential issues or areas of concern that may impact the overall stability of the slope constrained land located at the rear extent of the property mentioned above.

Previously, a review letter issued by Greywacke (Ref.: ANTT0396-GEO AB) made recommendations regarding the location of the grass covered swale drain located on the slope constrained landscape. Recommendations included replacement of grass covered swale with an alternate system such as piped system or a suitable system that will not have any adverse impacts on the sloping landscape. This issue was addressed by replacing stormwater swale drains with piped stormwater outlets.

Revised Civil Stormwater Management Plans mentioned above includes a new location for the OSD tank and Bioretention basin. Although the new location is outside of the slope constrained landscape, due to required excavation up to 1.5m at the top of a steep embankment, a revised letter was requested to assess the suitability of the proposed new location. As mentioned in our original report (Ref.: ANTT0396-GEO AA Rev 01), well defined medium to high strength sandstone outcrops were observed along the northern boundary line. Assuming that the proposed OSD tank and Bioretention basin, and other relevant structures (i.e., retaining walls) are supported on sandstone bedrock, the impacts of the amended stormwater design is negligible. It should be noted that retaining walls and any load supporting structures around the OSD tank and Bioretention basin must be designed and certified by an experienced structural engineer.

We confirm that , the information and recommendations provided in the original geotechnical report are considered suitable for the amended stormwater design.

If you require further information please do not hesitate to contact me at your earliest convenience.

For and on behalf of  
Greywacke Geotechnics



**Kadir Oncu**  
Senior Geotechnical Engineer  
NSW Reg. Pro. Geo. Eng. & Design Practitioner

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