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22 March 2023

GSSW1547-1 AE

**BILD Group Pty Ltd
133 Metrolink Circuit,
CAMPBELLFIELD, VIC, 3061**

**RE: CONTROLLED FILL CERTIFICATE
LOT 639 HARRIOTT ESTATE, STAGE 6, ARMSTRONG CREEK, VICTORIA**

Ground Science South West Pty Ltd wishes to advise the prospective owner/builder that the construction of Lot 639 located at the Harriott Estate in Armstrong Creek involved the placement and compaction of controlled fill through Level 1 procedures on nominated areas. We were engaged by BILD Group to perform Level 1 Inspection and Testing for the controlled fill placement in accordance with AS3798 'Guidelines on Earthworks for Commercial and Residential Developments' (2007) on this property. The depth and location of the controlled fill and results of compaction control testing are detailed in the Ground Science South West Level 1 report (ref: GSSW1547.1 AA) dated 22/03/2023. We certify that all fill placement completed on this lot as detailed in our report complies with the requirements of AS3798 (2007).

The purpose of performing Level 1 Inspection and Testing is to ensure the quality of the filling process and to minimise the costs of extensive testing. The engagement of a Geotechnical Inspection & Testing Authority (GITA) allows the contractor to perform his role in the construction of the filling operation while the GITA monitors the quality control process of the operation. The visual observations of thorough processors and work practises by the contractor allows the GITA to approve the subsequent placement of fill without having to wait for the completion of testing and the extended time it takes to receive a test result. The GITA will however, carry out random spot checks of the filling operations throughout the days production as confirmation that the placement procedures and the fill moisture content is appropriate. At the end of a days production, the GITA will sign off the completed works as satisfactory.

While moisture conditioning of fill sources aids in the ease with which compaction is achieved, it is not necessarily a physical characteristic that determines if the placed fill is acceptable. Ground Science South West adopts a best practice policy with stripped base soils and all fill placements to be suitably moisture conditioned. This aids in creating a homogenous soil moisture and limits abnormal moisture changes for footing systems constructed on the fill platform. Creating a consolidated platform of which is similar to surrounding natural conditions is the primary aim of the Level 1 processes and assists in minimising the occurrence of differential ground movements to footing structures. The full report may be viewed or obtained from the estate developer's sales office should the need arise.

**For & on behalf of
Ground Science South West Pty Ltd**

**Michael Knez
Geotechnical Engineer**