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MEMORANDUM

To: Mr. Miguel Ibrahim, L.E.L. – Schaeffers Consulting Engineers (mibrahim@schaeffers.com)
Date: March 21, 2017
File #: P15236
**Subject: Confirmation of Groundwater Levels for Excavation
Proposed Development at 35 Plains Road East, Burlington, Ontario**

This memo is further to our recent discussions regarding the groundwater levels at the above site. The details provided in this memo are based on the findings of the Geotechnical Investigation report for the development, issued by Landtek Limited (herein "Landtek") on April 1, 2016, reference number 15236.

The proposed development is to comprise the construction of an eight-storey, mix-use structure with two levels of basement parking, and it is understood that the foundations for the proposed structure are to be seated at depths between approximately 6.4 m and 7.0 m below existing ground level.

Based on the findings of the field investigation completed on August 18, 2015, groundwater was encountered during drilling at depths between approximately 7.6 m and 13.0 m below existing ground level. Two monitoring wells were installed during the field investigation, and a subsequent groundwater monitoring visit undertaken on August 25, 2015, reported static groundwater levels of 7.2 m and 7.4 m below existing ground level.

Therefore, based on the information provided to Landtek it is anticipated that the excavation base is to be above the predominant groundwater level. As per the report, water seepage into the excavation is expected to be variable, particularly when considering heavy rainfall events or seasonally wetter periods, and locally perched waters within fill materials encountered underlying the site.

This given, it is not anticipated that pumping will be required at a rate such that a Permit To Take Water (herein "PTTW") is required (i.e. a volume of greater than 400,000 l/day). It would be considered prudent however, to register the project online with the Ministry of Environment and Climate Change (herein "MOECC") Environmental Activity and Sector Registry (herein "EASR"). This registry is a streamlined system that replaces the requirement to obtain a PTTW for construction dewatering where it is anticipated to extract more than 50,000 l/day, but less than 400,000 l/day. The EASR allows developers, contractors etc. actively engaged in a water-taking operations to register the project with the MOECC online instead of applying for a PTTW, and has a registration fee of \$1,190.00.

We hope that this is of help to you, but if you do have any queries or need any further information then please do not hesitate to call.

Kind regards,

LANDTEK LIMITED

James Dann, B. Eng. (Hons.)