



Kollaard Associates

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Kollaard File # 130708

November 10, 2017

Mr. Jim Burghout
Claridge Homes (Bank St.) Inc.
210 Gladstone Avenue, Suite 2001
Ottawa, Ontario K2P 0Y6

Attention: Mr. Burghout

RE: Addedum to Geotechnical Investigation – 4747 and 4755 Bank Street
Zoning By-law Amendment: D02-02-17-0098
Plan of Subdivision: D07-16-17-0026
City of Ottawa, Ontario

Dear Sir:

In response to a City of Ottawa letter dated November 2, 2017 written by Ms. Wendy Tse, Planning, Infrastructure and Economic Development Department for the above noted site, the following information should be added to the geotechnical report regarding Tree Planting and Swimming Pool Construction. This letter should be read in conjunction with the Geotechnical Report by Kollaard Associates Inc, File # 130708, dated January 15, 2014.

TREES

The silty clay deposit that is present within the central and east portions of the site is sensitive to water depletion by trees of high water demand during periods of dry weather. When trees draw water from clayey soils, the silty clay undergoes shrinkage which can result in settlement of adjacent structures. The zone of influence of a tree is considered to be approximately equal to the mature height of the tree. Therefore, in this area, trees which have a high water demand, such as Poplar, Aspen, Willow, and Silver Maple should not be planted closer to structures than the ultimate height of the trees. Table I (see attached) provides a list of common trees in decreasing order of water demand, and, accordingly, decreasing risk of potential effects on structures.

SWIMMING POOLS and ADDITIONS

No special geotechnical considerations are necessary for the installation of above-ground or in-ground pools.

DECKS

There are no special geotechnical considerations for decks on this site.

ADDITIONS

Any proposed addition to a house (regardless of size) will require a geotechnical assessment. Written approval from a geotechnical engineer should be required by the City prior to the building permit being issued.

We trust this letter provides sufficient information for your present purposes. If you have any questions concerning this letter please do not hesitate to contact our office.

Yours truly,

Kollaard Associates Inc.



Dean Tataryn, B.E.S., EP.



Steve deWit, P.Eng.

Attachment: Table I - Order of Water Demand for Common Trees

TABLE I

ORDER OF WATER DEMAND FOR COMMON TREES**

Some common trees in decreasing order of water demand:

Broad Leaved Deciduous

Willow
Alder
Poplar
Elm
Maple
Birch
Aspen
Ash
Hickory
Beech
Oak

Deciduous Conifer

Larch

Evergreen Conifers

Spruce
Fir
Pine
Juniper

The order of the above list of trees as obtained from the Ottawa Forests and Greenspace Advisory Committee Native Trees and shrubs Database.

It is noted that there are subspecies of each tree and depending on the subspecies selected, the listed order may be different. As an example, in a rating system of 1 to 5 with 5 being high, Black Ash is listed as 5 where as White Ash is listed as 2.

