

January 27, 2023
WE 22055

Mr. Brian Gregatti
Development Eng. Technologist
Transportation and Engineering
Town of Oakville
PO Box 310
1225 Trafalgar Road
Oakville, Ontario
L6J 5A6

Dear Mr. Gregatti:

**RE: 1075 North Service Road
CH Floodplain Modelling Spill Issue**

Further to the minutes of the Pre-Consultation meeting of November 30, 2022, and to discussions with Ms. Alex Lenarduzzi of Conservation Halton (CH), and to your email of January 25, 2023, we note the following:

- 1 The Pre-Consultation Minutes noted that the property is within a regulated area, that CH had no concerns with the proposal and change in ownership, and that no permit was required from CH;
- 2 The Pre-Consultation Minutes stated that CH recommends obtaining advice from a professional engineer regarding the exposure to flooding; and,
- 3 The Pre-Consultation Minutes state that the Town requests a Flood Hazard Assessment to ensure there are no issues related to the potential spill on the east side of the property and that this Flood Hazard Assessment is to be peer-reviewed.

Further to these requirements, we refer you to the hazard mapping prepared by CH and provided at the Pre-Consultation Meeting and attached to this letter. Furthermore we note the following:

- 1 There is existing flooding potential on the Subject Property as defined by the blue line on the CH figure. The floodplain touches the easterly boundary of the Subject Property but only impacts the existing parking lot area in a very minimal manner (noting that the yellow highlight is only a planning buffer on the actual hazard limit);
- 2 A spill area has been defined as being present by the red dashed line crossing the North Service Road and the eastbound and west bound lanes of the QEW;
- 3 Spill direction is indicated by the blue arrows as located on the North Service Road as well as on the QEW, i.e. the spill arrows are not located on the Subject Property;
- 4 The limits of the spill zone are within public rights-of-way and are not present on the Subject Property;
- 5 Any spill that may occur would be minor in nature as it would only be generated by shallow floodwaters in the fringe areas of the creek;
- 6 Should any spill occur, topography would suggest that the spill would be towards the QEW and not the North Service Road as the QEW is lower than the North Service Road, particularly the local ditch between the North Service Road and the QEW;.
- 7 Should a spill occur along the North Service Road, such a spill would be constrained by the existing ditch system of the North Service Road and conveyed westerly without impacting the Subject Property; and,

- 8 In discussions with Ms. Alex Lenarduzzi, CH concurs with the conclusion that flows would be contained within the ditch systems and not impact the Subject Property.

As such, it is our professional opinion that there is no hazard present on the Subject Property. Any spill, should it occur, would be within public rights-of-way. If spill were to occur on the North Service Road, it would be contained within the ditch systems of the North Service Road and not impact the Subject Property.

Further to the CH request, we conclude that there is no exposure to flooding or spill on the Subject Property. Further to the Town's requirements, we conclude that any further flood hazard assessment is no longer warranted.

Should you have any comments or questions, do not hesitate to contact me.

Respectfully submitted,



Ed Gazendam, Ph.D., P.Eng.,
President, Sr. Geomorphologist
Water's Edge

/eg

ATT: CH Floodline Mapping Figure

Conservation Halton Regulation Mapping



2022-12-12, 3:17:01 p.m.

- | | | | | |
|--------------------------------|----------------------------------|---|-----------------------------|-----------------------------|
| Approximate Regulation Limit | Stable Top of Bank (STOB) Hazard | Shoreline 100 year Flood Elevation Hazard | Headwater Floodplain Hazard | Spill Lines |
| Shoreline Dynamic Beach Hazard | Wetland Hazard | Meander Belt Hazard | Spill Zone Hazards | Consult Conservation Halton |
| Floodplain Hazard | Spill Arrows | | | |

