



December 5, 2022
CO750.01

Suncor Energy Products Partnership
11701 Sherbrooke East
Montreal, QC, H1B 1C3
fyazji@suncor.com

Attention: Fadi Yazji, Project Engineer

Via email: fyazji@suncor.com

**Re: Proposed Retail Fuel Outlet
Southeast Corner of Palladium Drive and Campeau Drive, Ottawa**

Terrapex Environmental Ltd. (Terrapex) has reviewed the most recent Grading Plan prepared by J + B Engineering Inc. latest revision dated July 18, 2022 and would confirm that the plan complies with the recommendations provided in the Geotechnical report prepared by Terrapex, dated January 24, 2020.

The 10 boreholes advanced at the site revealed that silty clay soils are present across the site extending to depths ranging from 3.8 to 5.8 m below grade. The laboratory test results revealed the Plasticity Index of the clay averages about 40, corresponding to soils with low/medium volume change as described in City of Ottawa Tree Planting in Sensitive Marine Clay Soils- 2017 Guideline.

Based on the soil conditions encountered in the boreholes, the following tree planting recommendations, based on the City of Ottawa Tree Planting in Sensitive Marine Clay Soils- 2017 Guideline, apply to the entire Site.

- The tree species must be small size (mature tree height up to 7.5 m) to medium size (mature tree height from 7.5 to 14 m), as confirmed by a Landscape Architect in the Landscape Plan;
- The minimum setback of trees from the proposed site buildings should be 4.5 m. A small size tree must be provided with a minimum of 25 m³ of available soil volume, as determined by a Landscape Architect. A medium size tree must be provided with a

minimum of 30 m³ of available soil volume, as determined by a Landscape Architect. The soil must be generally uncompacted when backfilling around tree planting locations;

- Given that the underground storage tanks will be buried a minimum of 3.5 m below grade, a tree setback is not required from the tanks.
- Grading surrounding the trees must promote draining to the tree root zone (in such a manner as not to be detrimental to the tree); and,
- The foundation walls of the proposed buildings must be reinforced with minimum two upper and two lower 15M reinforcing bars.

Should you require additional information or have any questions regarding this report, please do not hesitate to contact the undersigned.

Yours very truly,

TERRAPEX ENVIRONMENTAL LTD.



Vic Nersesian, P.Eng.
Senior Geotechnical Engineer