13705 Bel-Red Road · Bellevue, Washington 98005 Phone 425/649-8757 · Fax 425/649-8758

December 13<sup>th</sup> 2022

Paul Bosveld 38XX W Mercer Way, Mercer Island, Washington Email: <u>paulbosveld@gmail.com</u>

Subject: **Tree Watering Recommendation & Minimum Risk Statement** Proposed New Residence 38XX W Mercer Way, Mercer Island, Washington

Ref:"Geotechnical Engineering Study, Proposed New Residence, 38XX W<br/>Mercer Island, Washington, GEO Group Northwest, November 2<sup>nd</sup>, 2020."

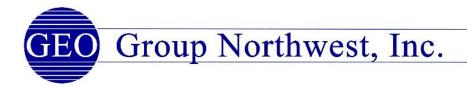
To whom it may concern:

GEO Group Northwest, Inc, has reviewed the location of the new and replaced trees that are to be planted on the above subject property, with their proximity to steep slopes onsite. We understand the city Arborist has requested the geotechnical engineer comment on watering techniques for new trees.

## **Recommendations**

We understand newly planted trees need water in the hot, dry, summer months. We recommend these new trees be watered bi-weekly with approximately 20 gallons of water. New trees should receive no more than 20 gallons of water per tree twice a week, using drip watering techniques.

Water should always be applied slowly, either using a watering bag or a garden hose set to a slow trickle and left for 30 minutes. You can also take three or 4 5-gallon buckets, use a hammer and nail to make some holes in the bottom, place the buckets at the base of the tree, and fill with



Geotechnical Engineers, Geologists & Environmental Specialists

G-5275

December 13 <sup>th</sup> 2022	G-5275
Boseveld	Page 2

water. To test proper watering, dig into the soil 2 inches below the surface. This soil should be damp, not dry and crumbling or saturated.

Provided that the recommendations in this document is properly implemented, it is our opinion the proposed new trees and their required watering will not increase the potential for soil movement, and the risk of damage to the site or from the site to adjacent properties from soil instability will be minimal. Minimum risk does not mean no risk, but that necessary design measured have been taken to reduce the level of risk to a low or minimal quantity.

## Mercer Island City Code, Per Requirement 19.07.060.D.2

The geologic hazard area will be modified, or the development has been designed so that the risk to the lot and adjacent property is eliminated or mitigated such that the site is determined to be safe.

Sincerely,

GEO Group Northwest, Inc.

Sophie Holt, G.I.T. Staff Engineering Geologist



12-13-2022

Dilliam Mary

William Chang, P.E. Principal Engineer