

February 26, 2024

JN 19233

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Subject: **Addendum to Geotechnical Report/Critical Area Study –
Critical Area Mitigation Sequencing**
Proposed Day Residence Reconstruction
9843 Mercerwood Drive
Mercer Island, Washington

Reference: *Geotechnical Engineering Study and Critical Area Study*, same site and project;
Geotech Consultants, Inc.; January 15, 2024.

Greetings:

This addendum to our above-referenced January 15, 2024 report has been prepared to respond to comments made by City of Mercer Island in their January 24, 2024 review letter.

MICC 19.07.100 Mitigation Sequencing

Response: In order to satisfy MICC 19.07.100 this project has addressed mitigation of impacts to the Seismic, Steep Slope, Potential Landslide, and Erosion Hazard critical areas present on site in the following manners:

A – Avoiding Impact altogether:

- The planned development area has previously been developed with structures, landscaping, and impervious surfaces. All of the mapped geologic critical areas on the property have been disturbed or modified, including the steep slope along the east edge of the property. This steep slope will not be disturbed by the planned redevelopment, thereby avoiding any impacts to that critical area.

B – Minimizing Impact:

- The planned work will not occur only within the gently- to moderately-sloped portions of the property, and will not extend onto the eastern steep slope. The new foundation system will be supported entirely on competent, glacially-compressed soils, which will provide a substantial improvement for seismic hazard protection for the new home over what currently exists in the existing house.

C – Rectify impacts:

- Outside of the building areas, all areas of disturbed soil will be planted or landscaped to provide permanent erosion protection. During site earthwork, temporary erosion control measures will be implemented to prevent adverse erosion impacts.

The redevelopment will include a storm drainage collection and disposal system designed to current standards. This will reduce the potential for surface runoff reaching the eastern steep slope.

As a part of the planned redevelopment, the existing in-ground swimming pool will be decommissioned and be filled in. This will reduce the potential for future instability on the eastern steep slope.

D – Reduce or eliminate impact over time:

- Not Applicable

E- Compensate for impact:

- Not Applicable.

F – Monitor the impact:

- The planned redevelopment of the property does not adversely impact the mapped potential landslide or seismic hazard. The only potential for adverse impacts with regard to the mapped erosion is during construction, before permanent landscaping measures are fully implemented. The proper function of the temporary erosion control system will be monitored during the site work by the general contractor, as well as representatives of the City of Mercer Island and the project geotechnical engineer. The general or earthwork contractors will be responsible to take immediate action to correct any erosion control issues, such as silty runoff leaving the work area.

Please contact us if there are any questions regarding this letter.

Respectfully submitted,
GEOTECH CONSULTANTS, INC.



2/26/2024

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