



Cobalt Geosciences, LLC
P.O. Box 82243
Kenmore, Washington 98028

July 19, 2023

John Sullivan
Jwsulli2013@gmail.com

RE: Geotechnical Addendum
Proposed Residence – Wall Surcharge Loads
3024 69th Avenue SE
Mercer Island, Washington

In accordance with your authorization, Cobalt Geosciences, LLC has prepared this letter to discuss slope surcharge values for retaining walls along the north and south sides of the site. We anticipate backslopes of 2H:1V for the north wall and backslopes up to 1H:1V for the south wall. For 2H:1V backslopes, we recommend active and at rest values of 52 and 72 pcf (equivalent fluid pressure) respectively. For 1H:1V backslopes, we recommend using a surcharge of 540 psf.

CLOSURE

The recommendations contained in this letter are based on assumed continuity of soils with those of our test holes and assumed structural loads. Cobalt Geosciences should be provided with final architectural and civil drawings when they become available in order that we may review our design recommendations and advise of any revisions, if necessary.

Sincerely,

Cobalt Geosciences, LLC



7/19/2023
Phil Haberman, PE, LG, LEG
Principal