

Sloping Sites – Geotechnical Requirements Bulletin 2012-02

11995 Haney Place, Maple Ridge, BC V2X 6A9
Phone: 604-467-7311 Email: PermitApplications@MapleRidge.ca

Purpose

Development on or adjacent to sloping sites may be adversely affected by, or adversely affect, slope and site stability, sub-surface soil conditions, ground water and surface drainage. Legislation governing requirements for these sites include:

- Section 56 of the Community Charter If land has potential for landslides, a Qualified Professional
 must report the land may be used safely for the use intended and that a registered covenant
 restricting the use of the land may be required.
- **The British Columbia Building Code** The Geotechnical Letters of Assurance ensure that an application complies with the British Columbia Building Code (BCBC) and there will be professional field review during construction.

In addition, Engineers and Geoscientists BC (EGBC) guidelines 'Guidelines for Legislative Landside Assessment for Proposed Residential Developments in BC' were developed to provide direction for Qualified Professionals who must assess life risk tolerance and assure the land is safe for the intended use. These requirements apply to all development where a building permit is required under the City of Maple Ridge Building Bylaw.

Requirements

A Geotechnical Letter of Assurance will be required if:

- the development is on a slope greater than 10%
- the development is within 10 meters of the top of a slope greater than 10%
- the development is within 5 meters of the base of a slope greater than 10%

A Geotechnical Letter of Assurance and a Geotechnical Report will be required if:

- the development is on or within 5 meters of a slope greater than 20%
- the development is within 10 meters of a slope greater than 35%**

^{**}Development is prohibited from occurring on slopes greater than 25% by the District's Zoning Bylaw.



Sloping Sites – Geotechnical Requirements Bulletin 2012-02

11995 Haney Place, Maple Ridge, BC V2X 6A9
Phone: 604-467-7311 Email: PermitApplications@MapleRidge.ca

A building permit application will only be accepted with the following:

- Geotechnical Letter of Assurance or Geotechnical report as required above
- Proof of Liability Insurance
- Two complete sets of sealed architectural plans
- If a geotechnical covenant already exists on title, a **signed and sealed letter** from the geotechnical engineer stating they have read the covenant.

The building permit will not be issued until a City Building Official has reviewed and accepted the reports provided by the Qualified Professional. If a covenant is required, the building permit will not be issued until the landowner has provided the required covenant confirming use of the land only in the manner as determined and certified by the Qualified Professional. The covenant must be registered under section 219 of the Land Title Act.

Requirements for Geotechnical Letters of Assurance

- Letters of Assurance are to be submitted in the form provided in the BCBC Current Edition.
- As a minimum requirement, Geotechnical engineers must indicate on Schedule B responsibility as follows:

Geotechnical - Temporary

•	7.1 Excavation	ALL PROJECTS
•	7.2 Shoring	ALL PROJECTS
•	7.3 Underpinning	IF APPLICABLE

Geotechnical – Permanent

•	8.1 Bearing capacity of soil	ALL PROJECTS
•	8.2 Geotechnical aspects of deep foundations	IF APPLICABLE
•	8.3 Compaction of Engineered fill	IF APPLICABLE
•	8.4 Structural consideration of soil	ALL PROJECTS
•	8.5 Backfill	IF APPLICABLE
•	8.6 Permanent dewatering	IF APPLICABLE
•	8.7 Permanent underpinning	IF APPLICABLE



Sloping Sites – Geotechnical Requirements Bulletin 2012-02

11995 Haney Place, Maple Ridge, BC V2X 6A9
Phone: 604-467-7311 Email: PermitApplications@MapleRidge.ca

Plumbing

- 4.2 Site and foundation drainage systems
 IF APPLICABLE
- The Letter of Assurance must indicate it is for the **entire site** including any retaining walls.

Requirements for Geotechnical Reports

Please refer to the EGBC Guidelines, latest revision, for full guidelines including Risk Tolerance Criteria and Appendix D - Landslide Assessment Assurance Statement.

It is expected that the Qualified Professional will exercise professional judgment when preparing reports and may determine that a higher or lower level of effort is required on a site-specific assessment.