

# Mason County Department of Community Development

## Submittal Checklist For a Geotechnical Report

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**Instructions:**

This checklist must be submitted with a Geotechnical Report and completed, signed, and stamped by the licensed professional(s) who prepared the Geotechnical Report for review by Mason County pursuant to the Mason County Resource Ordinance. If an item found to be not applicable, the report should explain the basis for the conclusion.

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Applicant/Owner \_\_\_\_\_ Parcel # \_\_\_\_\_

Site Address \_\_\_\_\_

- (1)
  - (a) A discussion of general geologic conditions in the vicinity of the proposed development,  
Located on page(s) \_\_\_\_\_
  - (b) A discussion of specific soil types  
Located on page(s) \_\_\_\_\_
  - (c) A discussion of ground water conditions  
Located on page(s) \_\_\_\_\_
  - (d) A discussion of the upslope geomorphology  
Located on page(s) \_\_\_\_\_
  - (e) A discussion of the location of upland waterbodies and wetlands  
Located on page(s) \_\_\_\_\_
  - (f) A discussion of history of landslide activity in the activity in the vicinity, as available in the  
referenced maps and records  
Located on page(s) \_\_\_\_\_
- (2) A site plan which identifies the important development and geologic features.  
Located on Map(s) \_\_\_\_\_
- (3) Locations and logs of exploratory holes or probes.  
Located on Map(s) \_\_\_\_\_
- (4) The area of the proposed development, the boundaries of the hazard, and associated buffers and setbacks shall be delineated (top, both sides, and toe) on a geologic map of the site.  
Located on Map(s) \_\_\_\_\_
- (5) A minimum of one cross section at a scale which adequately depicts the subsurface profile, and which incorporates the details of proposed grade changes.  
Located on Map(s) \_\_\_\_\_
- (6) A description and results of slope stability analyses performed for both static and seismic loading conditions. Analysis should examine worst case failures. The analysis should include the Simplified Bishop's Method of Circles. The minimum static safety factor is 1.5, the minimum seismic safety factor is 1.1. and the quasi-static analysis coefficients should be a value of 0.15.  
Located on page(s) \_\_\_\_\_
- (7)
  - (a) Appropriate restrictions on placement of drainage features  
Located on page(s) \_\_\_\_\_
  - (b) Appropriate restrictions on placement of septic drain fields  
Located on page(s) \_\_\_\_\_
  - (c) Appropriate restrictions on placement of compacted fills and footings  
Located on page(s) \_\_\_\_\_

- (d) Recommended buffers from the landslide hazard areas shoreline bluffs and the tops of other slopes on the property.  
 Located on page(s) \_\_\_\_\_
- (e) Recommended setbacks from the landslide hazard areas shoreline bluffs and the tops of other slopes on the property.  
 Located on page(s) \_\_\_\_\_
- (8) Recommendations for the preparation of a detailed clearing and grading plan which specifically identifies vegetation to be removed, a schedule for vegetation removal and replanting, and the method of vegetation removal.  
 Located on page(s) \_\_\_\_\_
- (9) Recommendations for the preparation of a detailed temporary erosion control plan which identifies the specific mitigating measures to be implemented during construction to protect the slope from erosion, landslides and harmful construction methods.  
 Located on page(s) \_\_\_\_\_
- (10) An analysis of both on-site and off-site impacts of the proposed development.  
 Located on page(s) \_\_\_\_\_
- (11) Specifications of final development conditions such as, vegetative management, drainage, erosion control, and buffer widths.  
 Located on page(s) \_\_\_\_\_
- (12) Recommendations for the preparation of structural mitigation or details of other proposed mitigation.  
 Located on page(s) \_\_\_\_\_
- (13) A site map drawn to scale showing the property boundaries, scale, north arrow, and the location and nature of existing and proposed development on the site.  
 Located on Map(s) \_\_\_\_\_
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I, \_\_\_\_\_ hereby certify under penalty of perjury that I am a civil engineer licensed in the State of Washington with specialized knowledge of geotechnical/geological engineering or a geologist or engineering geologist licensed in the State of Washington with special knowledge of the local conditions. I also certify that the Geotechnical

Report, dated \_\_\_\_\_, and entitled \_\_\_\_\_

\_\_\_\_\_ meets all the requirements of the Mason County Resource Ordinance, Landslide Hazard Section, is complete and true, that the assessment demonstrates conclusively that the risks posed by the landslide hazard can be mitigated through the included geotechnical design recommendations, and that all hazards are mitigated in such a manner as to prevent harm to property and public health and safety. (Signature and Stamp)