



Soils Report for Hazard Zone B

A geotechnical investigation report (soils report) is required to be submitted to the City of San Carlos for review for all projects in Hazard Zone B involving **any** of the following:

- Mapped landslide
- New residential or commercial buildings
- Residential or commercial additions greater than 500 square feet total (including garage)
- Swimming pools
- Retaining walls greater than 4 feet in height, measured from bottom of footing to top of wall
- Repairs to distressed foundations, including underpinning
- Total grading volume greater than 50 cubic yards
- Placement of structural fill for foundations
- Pier foundations
- Projects within 50 feet of an unprotected creek bank

A foundation plan review letter is required to be submitted to the city for these projects prior to permit issuance.

For projects that require a geotechnical investigation report (or statement), as outlined above, the project geotechnical engineer (or responsible structural engineer or architect), must perform construction inspection(s), and submit an "as-built" letter/report, documenting the construction observation and testing, to the city.

In addition, an engineering geologic investigation/report may be required by the city geologist.

Minimum Elements for a Geotechnical Report

- Location Map
- Site Plan Map
 - Scale and orientation
 - Topographic contours
 - Outline of proposed development
 - Location of any trenches, bore holes, cross sections, etc.
- Site Description
 - Location
 - Topography (Slope)
 - Vegetation
 - Discussion of any previous work
 - Discussion and evaluation of engineering properties of materials
- Discussion of potential engineering hazards
- Suitability of site for proposed development from engineering standpoint
- Specific recommendations for foundation design, grading, drainage, etc.
- Supportive data
 - Any cross sections, showing subsurface conditions
 - Logs of any subsurface explorations
 - Results of any laboratory tests
 - References
- Signatures of civil engineer registered in the State of California

Note: These are minimum elements that generally should be included in soil and foundation engineering reports. Additional data or analyses may be required in specific cases at the discretion of the City of San Carlos.