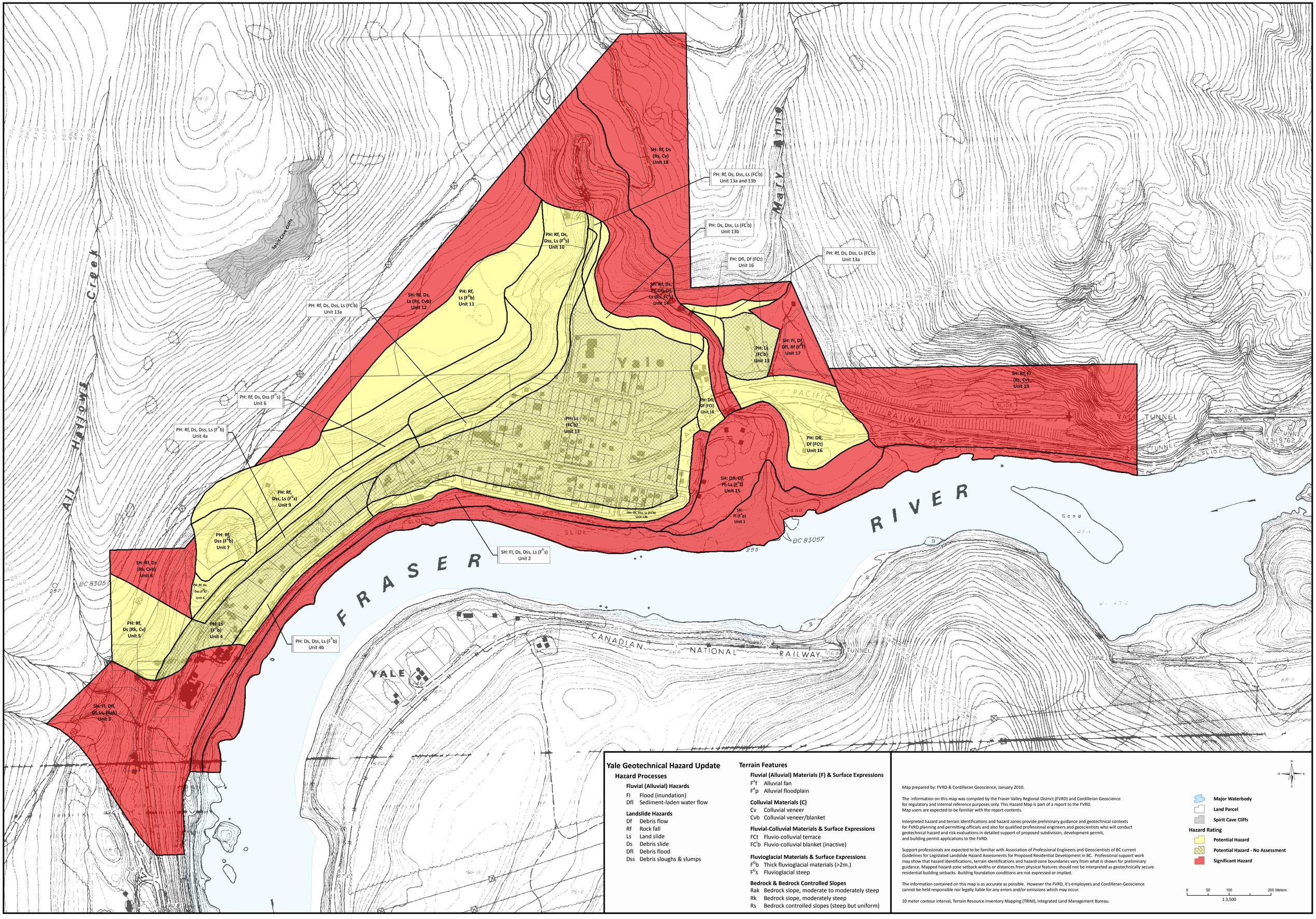


## Yale Geotechnical Hazard Update

### Hazard Processes

**Fluvial (Alluvial) Hazards**

- Fl Flood (inundation)
- Dfl Sediment-laden water flow

**Landslide Hazards**

- Df Debris flow
- Rf Rock fall
- Ls Land slide
- Ds Debris slide
- Dfl Debris flood
- Dss Debris sloughs & slumps

### Terrain Features

**Fluvial (Alluvial) Materials (F) & Surface Expressions**

- $F^{A}f$ Alluvial fan
- $F^{A}p$ Alluvial floodplain

**Colluvial Materials (C)**

- Cv Colluvial veneer
- Cvb Colluvial veneer/blanket

**Fluvial-Colluvial Materials & Surface Expressions**

- FCt Fluvio-colluvial terrace
- $FC^{t}b$ Fluvio-colluvial blanket (inactive)

**Fluvioglacial Materials & Surface Expressions**

- $F^{G}b$ Thick fluvioglacial materials (>2m.)
- $F^{G}s$ Fluvioglacial steep

**Bedrock & Bedrock Controlled Slopes**

- Rak Bedrock slope, moderate to moderately steep
- Rk Bedrock slope, moderately steep
- Rs Bedrock controlled slopes (steep but uniform)

Map prepared by: FVRD & Cordilleran Geoscience, January 2010.

The information on this map was compiled by the Fraser Valley Regional District (FVRD) and Cordilleran Geoscience for regulatory and internal reference purposes only. This Hazard Map is part of a report to the FVRD. Map users are expected to be familiar with the report contents.

Interpreted hazard and terrain identifications and hazard zones provide preliminary guidance and geotechnical contexts for FVRD planning and permitting officials and also for qualified professional engineers and geoscientists who will conduct geotechnical hazard and risk evaluations in detailed support of proposed subdivision, development permit, and building permit applications to the FVRD.

Support professionals are expected to be familiar with Association of Professional Engineers and Geoscientists of BC current Guidelines for Legislated Landslide Hazard Assessments for Proposed Residential Development in BC. Professional support work may show that hazard identifications, terrain identifications and hazard-zone boundaries vary from what is shown for preliminary guidance. Mapped hazard-zone setback widths or distances from physical features should not be interpreted as geotechnically secure residential building setbacks. Building foundation conditions are not expressed or implied.

The information contained on this map is as accurate as possible. However the FVRD, it's employees and Cordilleran Geoscience cannot be held responsible nor legally liable for any errors and/or omissions which may occur.

10 meter contour interval, Terrain Resource Inventory Mapping (TRIM), Integrated Land Management Bureau.

- Major Waterbody
- Land Parcel
- Spirit Cave Cliffs

**Hazard Rating**

- Potential Hazard
- Potential Hazard - No Assessment
- Significant Hazard

0 50 100 200 Meters

1:3,500