

**INTRODUCTION**  
This Surficial Geology Map of NTS 94-01 (Canadian Geoscience Map 105) is the product of collaboration between the Geological Survey of Canada and the British Columbia Ministry of Energy, Mines and Natural Resources (EMNR) as part of the Geoscience for Energy and Minerals Program (GEM-EM) Yukon Basin Project. The accompanying geodatabase includes field observation points and field photos, landform features as lines, and surficial geology polygons. The map and geodatabases are essential baseline geoscience information for a range of potential end users including resource explorationists, geotechnical engineers, land-use managers, terrestrial ecologists, archaeologists, geologists, and communities in northern British Columbia. By providing an insight into the distribution and origins of surficial earth materials, CGM 105 will help to reduce the economic costs and risks associated with the sustainable development of energy and mineral resources in NTS 94-01. Environmental impact assessments for new access roads, work camps, well pads, pipeline and pipeline transmission line corridors, water storage and waste management systems and other infrastructure will benefit from the geoscience information presented here. By identifying areas prone to geological hazards (e.g., landslides, permafrost, flooding), CGM 105 will also help to protect northern infrastructure and communities vulnerable to climate change in Canada's north.

**APPROACH TO SURFICIAL GEOLOGY MAPPING**  
Terrain mapping and field-based benchmarking studies have led to a better understanding of the regional distribution of surficial deposits, permafrost, landslides and other geomorphic processes in the NTS 94-01 map area (Hurley and Hicks, 2010; Hurley et al., 2011a,b). Surficial earth materials and landforms were classified using a combination of stereo pair air photos (BC697015, 156C897015, 156C907015, 156C917015, 156C927015, 156C937015, 156C947015, 156C957015, 156C967015, 156C977015, 156C987015, 156C997015, 157007015, 157017015, 157027015, 157037015, 157047015, 157057015, 157067015, 157077015, 157087015, 157097015, 157107015, 157117015, 157127015, 157137015, 157147015, 157157015, 157167015, 157177015, 157187015, 157197015, 157207015, 157217015, 157227015, 157237015, 157247015, 157257015, 157267015, 157277015, 157287015, 157297015, 157307015, 157317015, 157327015, 157337015, 157347015, 157357015, 157367015, 157377015, 157387015, 157397015, 157407015, 157417015, 157427015, 157437015, 157447015, 157457015, 157467015, 157477015, 157487015, 157497015, 157507015, 157517015, 157527015, 157537015, 157547015, 157557015, 157567015, 157577015, 157587015, 157597015, 157607015, 157617015, 157627015, 157637015, 157647015, 157657015, 157667015, 157677015, 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