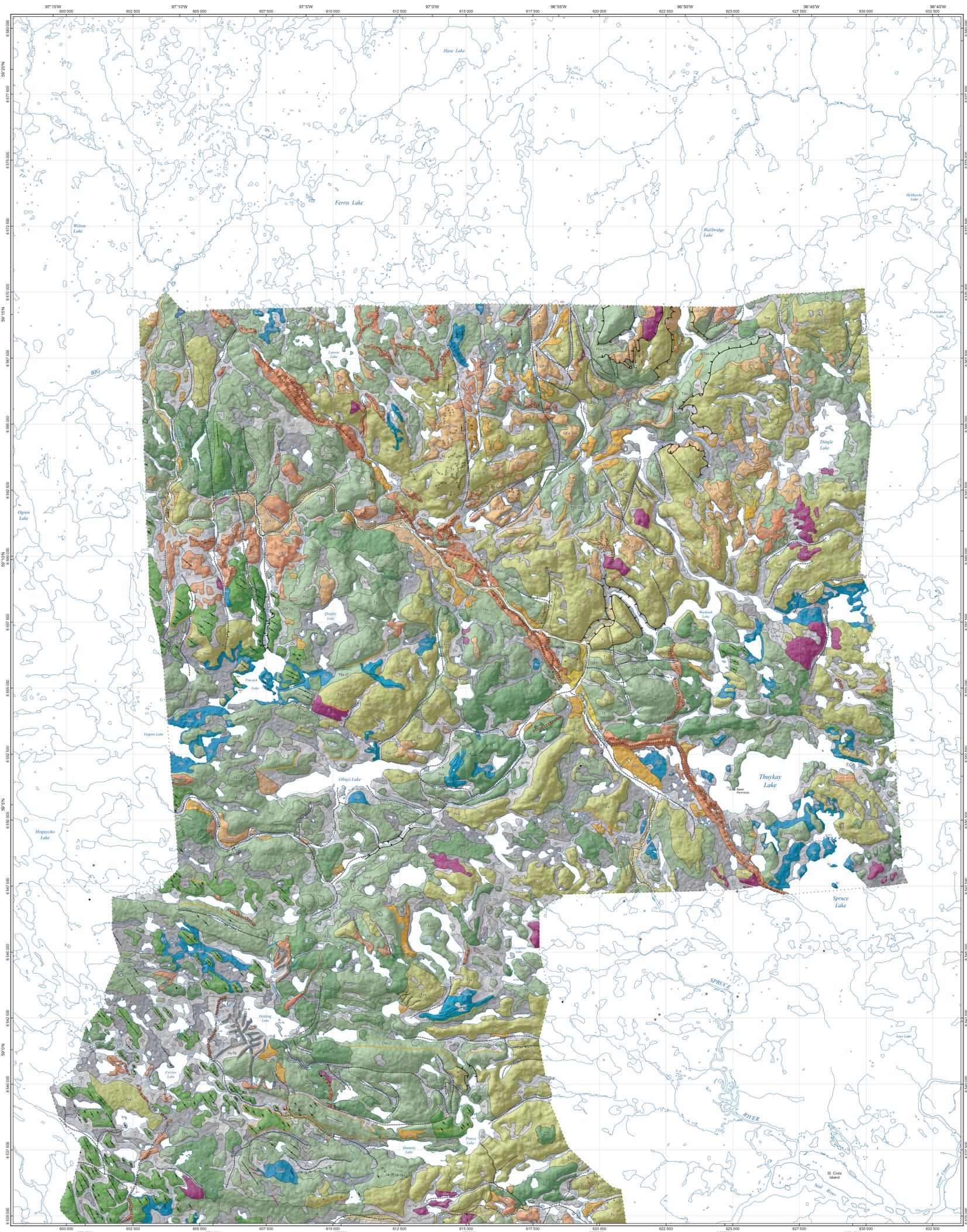




# Surficial geology of the Thuykay Lake area, Manitoba (parts of NTS 64114, 15, 64P2, 3, 6, 7)



### Legend

#### QUATERNARY

##### SURFICIAL DEPOSITS

##### HOLOCENE

##### NONGLACIAL ENVIRONMENTS

- ALLUVIAL DEPOSITS:** sorted sand, silt and clay with minor gravel and organic detritus, commonly stratified; deposited along and/or within alluvial rivers and streams
- Floodplain deposits:** sorted sand, silt, clay, minor gravel and organic detritus greater than 1 m thick, forming extensive floodplains close to rivers and streams; includes terrace levels smaller than 1 m at this scale
- Fluvial terraces:** inactive terraces above modern floodplains; greater than 2 m thick, consisting of gravel, sand and overbank silt and organic detritus on the North Kneive River; annual spring ice-push continues to build up sediment along the side of these terraces
- ORGANIC DEPOSITS:** undifferentiated peat and muck, 1 to greater than 5 m thick, formed by the accumulation of plant material in various stages of decomposition, generally soft at first, wet brown (severe and boggy over poorly drained substrates; fibric ferns are present along some water channels, permafrost commonly present extending up to thick organic deposits, as seen in the prevalent raised logs with ice-wedges); small, unmappped deposits commonly occur in most terrain units; peat mantles most geological units
- Organic veneer:** thin, discontinuous peat, less than 1 m thick, which drapes the existing topography
- Organic blanket:** continuous peat between 1 and 2 m thick, which drapes the existing topography
- Organic plain:** flat to gently undulating plain of peat, greater than 2 m thick, that contains numerous small wetland ponds and depressions
- ORGANIC DEPOSITS:** massive to stratified debris up to 5 m thick along the North Kneive River; non-sorted to poorly sorted, massive to stratified debris deposited by direct, gravity-induced movement; composition depends on source material
- Mass-wasting debris:** glacial sediment moved downslope by active and inactive mass-movement processes; hummocky topography
- Landslide and slump debris, toe:** fan-shaped base where sediment derived from mass-movement processes uplope has come to rest
- Colluvial veneer:** thin and discontinuous cover of slumped and/or soliflucted material, greater than 1 m thick

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