



Universal Transverse Mercator, Zone 8 (NAD83)

LEGEND

- QUATERNARY**
 - Thick overburden, bedrock type unknown
- TERTIARY**
 - HAECKEL HILL PLUTON** - Medium to coarse-grained hornblende-biotite GRANITE and granodiorite.
- MIOCENE**
 - MILES CANYON BASALT** - Dark red to brown weathering, columnar jointed olivine BASALT flows, commonly amygdaloidal and vesicular.
- MID CRETACEOUS**
 - MOUNT NANSEN GROUP** - massive aphyric or feldspar-phyric ANDESITE to DACITE flows, breccia and tuff.
 - WHITEHORSE PLUTONIC SUITE** - grey, medium to coarse grained, generally equigranular GRANITIC rocks of felsic, intermediate, locally mafic composition
- LOWER AND MIDDLE JURASSIC**
 - LABERGE GROUP** - sandstone, greywacke, argillite, siltstone, arkose, conglomerate and hornfels.
- UPPER TRIASSIC**
 - AKSALA - CASCA MEMBER** - brown shale, black and minor red siltstone, greenish, calcareous GREYWACKE and interbedded bioclastic, argillaceous limestone.
 - AKSALA - HANCOCK MEMBER** - resistant, light grey weathering, massive to sparsely bioclastic LIMESTONE to densely fossiliferous.
 - AKSALA - MANDANNA MEMBER** - undifferentiated maroon and green SANDSTONE, mudstone, shale and tuff.
 - POVOVAS FORMATION** - dark weathering, dark green to maroon, variably pillowed, volcanoclastic BASALT flows.

SYMBOLS

- GEOLOGICAL BOUNDARIES**
 - Fault, movement undefined
 - Contact, defined
 - Contact, assumed or extrapolated
 - Surficial, approximate
- OTHER**
 - 758 Bedrock well, approximate elevation of top of rock
 - <640 Deep well ending in overburden, approximate elevation of well bottom
 - 650 Bedrock surface contour, interval 50 metre

SOURCES OF INFORMATION

Data Compiled by Gartner Lee Limited, 2002.
References:
Cartography by F. Pearson, 2002.
Base map derived from: 1) 1:50,000 map sheets 105D/10, 11, 14 and 105D/15 of the National Topographic Series; and 2) 1:20,000 digital mapping of the City of Whitehorse prepared by Tritation Mapping Co., (1996).
Bedrock geology and topography from S.P. Corley and A.J. Makepeace 1999, Yukon digital geology. Geological Survey of Canada Open File D3826



CITY OF WHITEHORSE
Engineering & Environmental Services



Indian and Northern Affairs Canada
NORTHERN AFFAIRS PROGRAM
Water Resources



GOVERNMENT OF YUKON
Community Development Branch
Environmental Health Services

PRELIMINARY HYDROGEOLOGICAL INVENTORY OF THE CITY OF WHITEHORSE

MAP 2
BEDROCK GEOLOGY AND BEDROCK TOPOGRAPHY

Scale: 1:50,000
1 cm is equivalent to 500 metres

