

LEGEND

LAYERED ROCKS

PALEOCENE

siltstone, sandstone, conglomerate

Pesc poorly consolidated siltstone, sandstone and conglomerate

TRIASSIC

Grayling and Toad formations (undivided)

TGT gray, red, and green shale interbedded with thin- to thick-bedded, brown sandstone and siltstone, locally calcareous

PERMIAN

Fantique Formation

Pfz dark gray, light gray-weathering, finely crystalline, feld, sandy, bedded limestone; contains thin interbeds of dark gray to black, fissile shale

Pfs dark gray, siliceous, bedded shale; contains lesser thin interbeds of limestone, limestone concretions and sandy limestone

EARLY CARBONIFEROUS

Mattson Formation

CM pale gray, strongly indurated, fine-grained, quartz sandstone, gray-weathering; locally contains trace amounts of fine pyrobitumen

DEVONIAN TO EARLY CARBONIFEROUS

Besa River Formation

DCBR black shale and silty shale with minor limestone nodules

SILURIAN TO DEVONIAN

carbonate

SDC buff- to gray-weathering, light to medium gray, thick-bedded dolostone and limestone; locally fossiliferous, locally vuggy

Road River Group

SDRR dark gray to black, locally calcareous or dolomitic, graptolite shale or siltstone with lesser very fine-grained sandstone, bedded chert (porcellanite) and limestone, weathers recessively

ORDOVICIAN TO SILURIAN

quartz sandstone and conglomerate

OSu gray to buff, quartz-rich sandstone to pebbly sandstone; grains are subround to round; contains beds up to 2 m thick of heavily burrowed, slightly dolomitic, very fine-grained sandstone and siltstone

ORDOVICIAN

Sunblood Formation

OSu mottled light to dark gray dolostone and limestone; weathers light brownish-gray to buff

basalt-reddish siltstone-sandstone-conglomerate

Ov massive, dark green, aphanitic basalt; interbedded with maroon sandstone, shale, pebble conglomerate and white sandstone

dolomitic siltstone

Oe thin bedded, brownish gray, slightly dolomitic siltstone; uppermost part contains thin interbeds of nodular limestone

CAMBRIAN TO ORDOVICIAN

reddish siltstone-argillite-sandstone-conglomerate

COs grayish-red, maroon and green, laminated siltstone to argillite interbedded with white, pink and maroon sandstone; locally contains quartz-sandstone conglomerate; upper part contains bicturated limestone with abundant trace fossils

NEOPROTEROZOIC (?)

mafic volcanic rocks

Pv gray-weathering, thick-bedded, basaltic lapilli tuffs and breccias interbedded with amygdaloidal to vesicular flows, fresh colours are grayish-green with lesser maroon; amygdaloids filled with chlorite and calcite

Toobally Formation

Pt dark gray to black, orange-brown weathering, polymictic, matrix-supported conglomerate; matrix mudstone to fine siltstone; clasts dominantly sedimentary sandstone, siltstone, and limestone

sandstone-pebbly sandstone-siltstone

Ps pale cream-weathering, pale gray to off-white, moderately indurated, quartz sandstone; subrounded clasts range in size from fine sand to fine pebbles, interbedded with dark gray, laminated siltstone and maroon siltstone

SYMBOLS

Geological contacts (defined, approximate, assumed).....

Dextral strike-slip fault (defined, approximate, assumed).....

Reverse fault (defined, approximate, assumed).....

Limit of outcrop.....

Limit of mapping.....

Bedding (inclined, horizontal).....

Bedding (observation from air).....

Bedding (from Gabrielse and Blusson, 1969).....

Dominant slaty cleavage.....

Fold axial surface trace (anticline: upright, overturned).....

Fold axial surface trace (syncline: upright, overturned).....

Kink fold axial surface trace (anticline).....

Kink fold axial surface trace (syncline).....

Line of cross-section.....

Fossil locality.....

Geochemical sample locality.....

Rock Eval sample locality.....

Esker.....

FOSSILS				
GSC Location No.	Material	Unit	CAI	Age Range
C-417157	conodont	COs	3	Early Tremadocian, Early Ordovician
C-417159	conodont	OSu	3	Darriwilian, Middle Ordovician
C-417163	conodont	OSu	3	Early Carbonian, early Late Ordovician
C-417165	conodont	OSu	3	Middle Tremadocian, early Early Ordovician
C-417168	conodont	OSu	3	Arenigian-Darriwilian, middle Early Ordovician
C-417167	conodont	OSu	3	middle Arenigian, late Early Ordovician-early Middle Ordovician
C-417156	conodont	Pfs	2	Permian
C-404735	pollen and spores	TGT		Early Triassic

conodonts - Pyle, L., 2004. Biostratigraphy Report, Seventeen samples submitted for conodont microfossil analysis, collected by Lee Pigage (Yukon Geological Survey), map sheet NTS 95D/8. Report No. LJP04-02, 12 p.

pollen and spores - Utting, J., 2004. Personal communication.

REFERENCES

Deklerk, R. (compiler), 2003. Yukon MINFILE - a database of mineral occurrences. Yukon Geological Survey, CD-ROM.

Gabrielse, H. and Blusson, S., 1969. Geology of Coal River map-area, Yukon Territory and District of Mackenzie (95D). Geological Survey of Canada, Paper 68-38, 22 pages.

Pigage, L.C. and MacNaughton, R.B., 2004. Reconnaissance geology of northern Toobally Lake (95D/8), southeast Yukon. In: Yukon Exploration and Geology 2003, D.S. Ermi and L.L. Lewis (editors), Yukon Geological Survey, p. 199-219.

Pyle, L., 2004. Biostratigraphy Report, Seventeen samples submitted for conodont microfossil analysis, collected by Lee Pigage (Yukon Geological Survey), map sheet NTS 95D/8. Report No. LJP04-02, 12 p.

Utting, J., 2004. Personal communication.

Pigage, L.C., 2004. Preliminary geology/NTS95D/8 (north Toobally Lakes area), southeast Yukon (1:50 000 scale). Yukon Geological Survey, Open File 2004-19.

Digital cartography and drafting by L.C. Pigage, Yukon Geological Survey.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

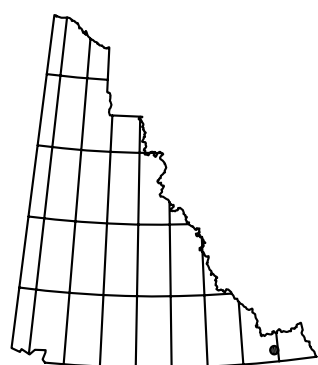
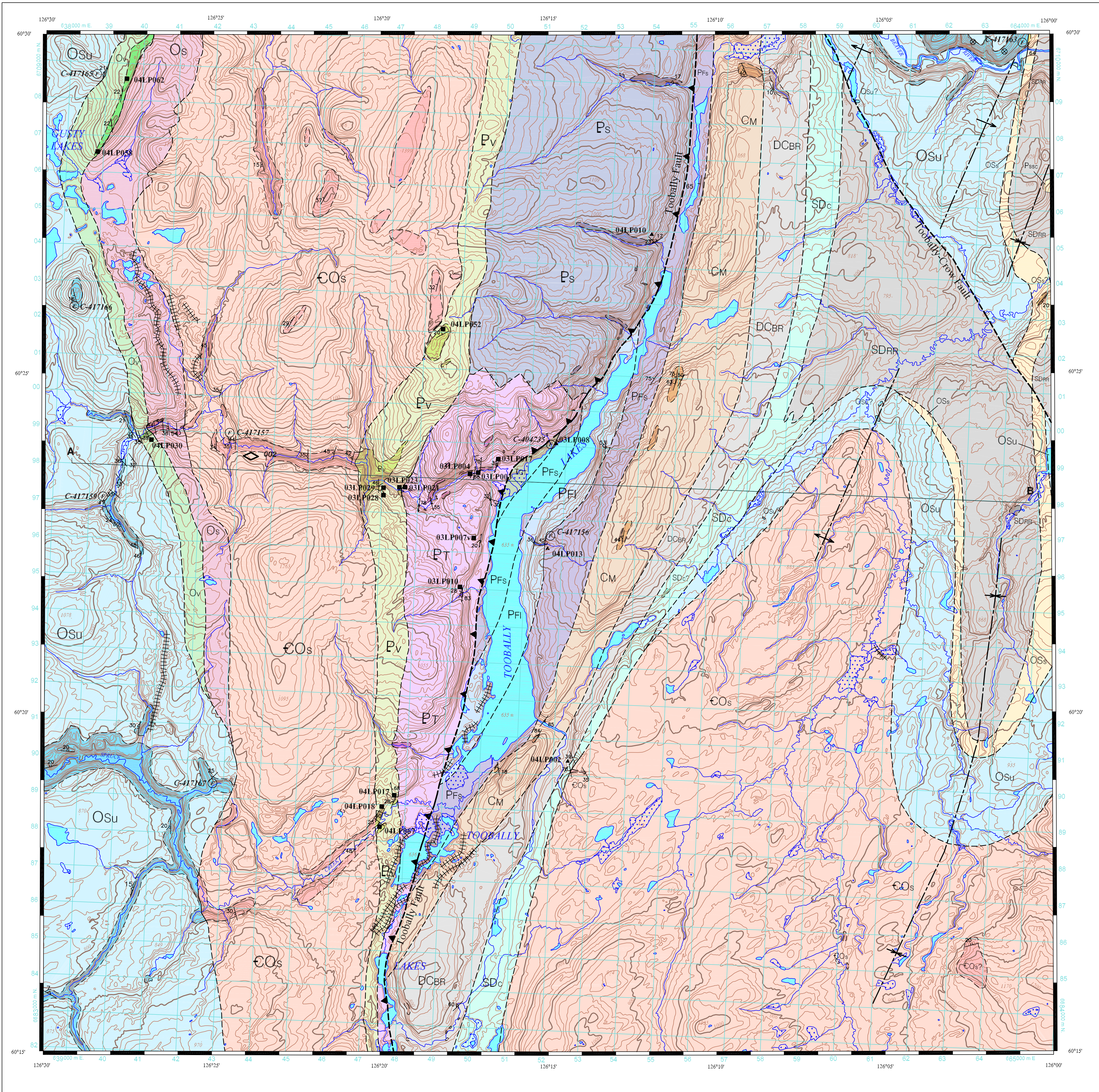
Keep this map in a dark area to keep colours from fading.

Yukon Geological Survey
Energy, Mines and Resources
Yukon Territorial Government

OPEN FILE 2004-19

PRELIMINARY GEOLOGY
NTS 95D/8 (north Toobally Lakes area),
SOUTHEAST YUKON (1:50 000 scale)

by
Lee Pigage
Yukon Geological Survey



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ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 9

95D/8
YUKON
SCALE 1:50 000

1 Kilometre
0 1000 2000 3000 Metres

CONTOUR INTERVAL 20 METRES
Elevations in metres above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

True North
235°
231°
Magnetic North

Use diagram to obtain numerical values
APPROXIMATELY WITH DISCREPANCY 1:5000
FOR CENTRE OF MAP
North American Datum 1983
Annual change decreasing 0.6

95D/10	95D/9	95D/12
95D/7	THIS MAP	95D/5
95D/2	95D/1	95D/4