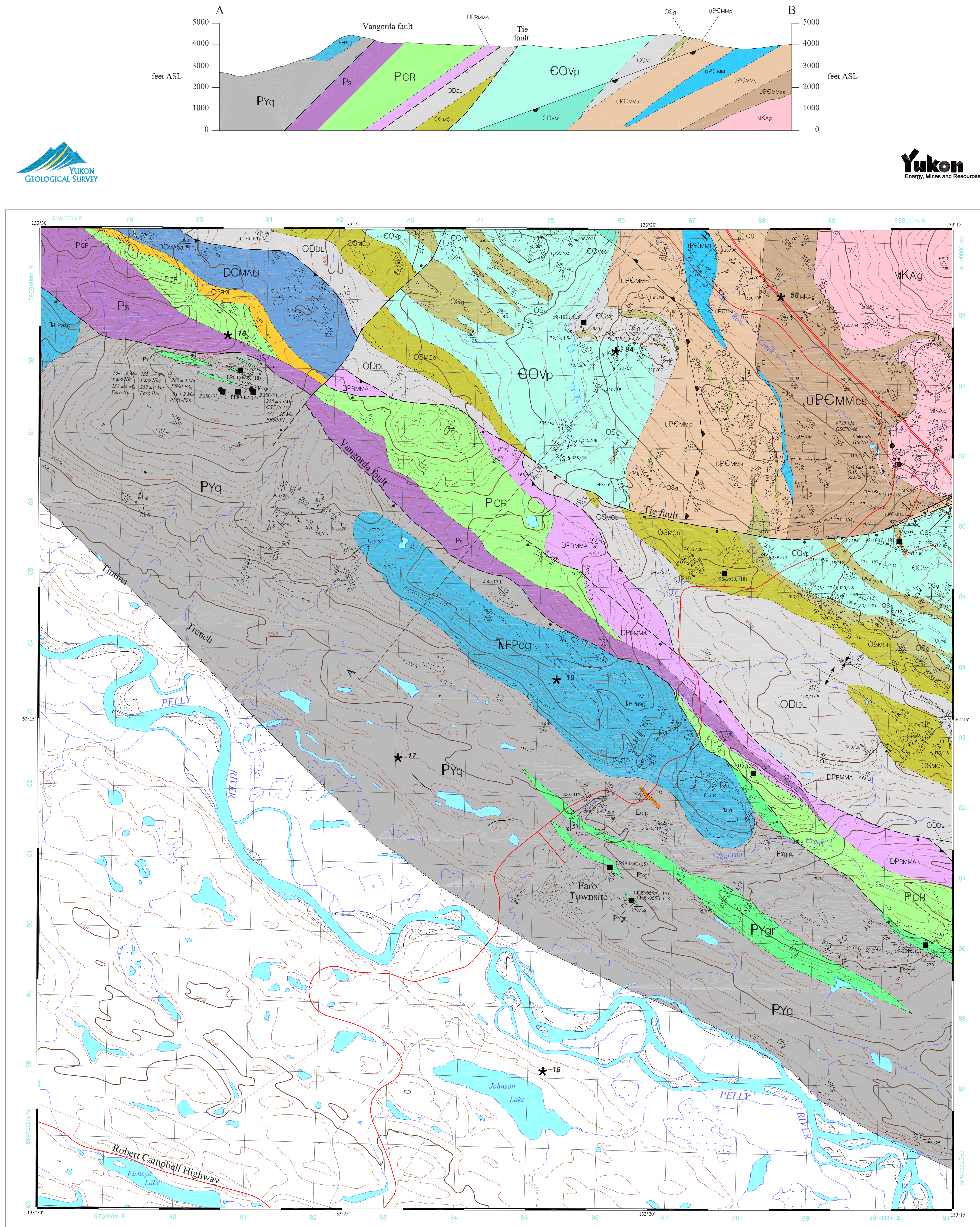


## LEGEND

### INTRUSIVE ROCKS

#### Eocene

**quartz-feldspar porphyry**

white-weathering, aphanitic to fine-grained, locally flow-banded quartz-feldspar porphyry; commonly contains phenocrysts of smoky grey quartz, biotite and white feldspar

#### Cretaceous

**granite to granodiorite undifferentiated**

grey, resistant, generally medium- to coarse-grained, locally megacrystic, undifferentiated Tay River plutonic suite or Anvil plutonic suite granite to granodiorite

**Tay River plutonic suite**

Orchard phase - biotite ± hornblende granite to granodiorite

**Anvil plutonic suite**

Mount Mye phase - biotite-muscovite granite; locally foliated

#### Permian?

**gabbro, harzburgite, serpentinite**

mafic and ultramafic intrusive rocks; locally extensively sheared and serpentinitized

Ps - serpentinite; Phz - harzburgite; Pg - gabbro

### ORDOVICIAN-SILURIAN

**gabbro**

dark green, locally magnetic, coarse- to fine-grained, massive to foliated gabbro; subvolcanic dykes and sills to Menzies Creek basalt (OSMcB); enclosing phyllites locally display thin contact metamorphic aureoles

**pyroxenite**

dark green, locally magnetic, coarse-grained, massive to foliated, variably serpentinitized pyroxenite; subvolcanic dykes and sills to Menzies Creek basalt (OSMcB); enclosing phyllites locally display thin contact metamorphic aureoles

### LAYERED ROCKS

#### YUKON-TANANA TERRANE

##### TRIASSIC

**Faro Peak formation**

resistant, massive, polymorphic conglomerate; clasts include quartzite, chert, limestone and serpentinite; matrix contains detrital muscovite

dark grey carbonaceous, locally calcareous shale or siltstone interbedded with medium to dark grey, fine-grained limestone

interbedded cherty argillite, chert, sandstone and mafic greywacke or conglomerate

massive, dark green, fine-grained to aphanitic basalt; may be equivalent to Anvil Range Group basalt

### PALEOZOIC

**metasedimentary and metavolcanic rocks**

medium to dark grey, locally gritty, muscovitic meta-quartzite to quartzose schist; contains bands of greywacke, gabbro, phyllite; rarely contains eclogite lenses

**grey to tan, massive limestone or dolomite**

medium to dark olive green, chloritic phyllite to amphibolite; locally displays relict equigranular igneous texture; locally includes ultramafic rocks and/or eclogite (Pg-1)

**felsic orthogneiss or paragneiss**

### SLIDE MOUNTAIN TERRANE

#### PERMIAN

**Campbell Range formation**

Epitaxial, locally hematitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt; contains lesser grey, green, red and black bedded chert, and pale green epidioritic sandstone or conglomerate

#### EARLY CARBONIFEROUS-PERMIAN

**Rose Mountain formation**

pale green, tan-weathering, bedded phyllitic chert interbedded with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

#### DEVONIAN-PERMIAN

**undivided Rose Mountain formation and Mount Aho formation**

dark grey to black, pale green and maroon noncalcareous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

#### DEVONIAN-EARLY CARBONIFEROUS

**Mount Aho formation**

silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds

dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

pale green, noncalcareous argillite and bedded chert with lesser shale chip and siltstone breccia, grey sandstone and chert-pebble conglomerate; locally contains maroon argillite and bedded chert

### ANCIENT NORTH AMERICA

#### DEVONIAN-EARLY CARBONIFEROUS

**Earn Group**

dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate and limestone

#### SILURIAN

**siltstone**

dark grey to black, platy, tan-weathering, thinly laminated, dolomitic siltstone

**Road River Group**

**Steel Formation**

tan- to orange-weathering, dolomitic, bluish-banded, silty mudstone

### ORDOVICIAN-DEVONIAN

**quartz sandstone and dolomite**

Massive, medium-grained, quartz sandstone interbedded with pale tan-weathering limestone or dolomite

#### Road River Group

**Duo Lake Formation**

dark grey to black, argillitic argillite; contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone and basalt flows

#### Menzies Creek formation

undivided dark grey green, foliated basalt; includes massive and pillowed, locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite and tuff

dark grey green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia, volcanoclastic sandstone, siltstone and tuff

dark grey green, monolithic basalt breccia with lesser volcanoclastic sandstone, siltstone and tuff, and massive and pillowed flows

grey to off-white limestone locally interbedded with orange-weathering siltstone

### CAMBRIAN-ORDOVICIAN

**Vangorda formation**

soft, silvery grey, calcareous phyllite with lesser medium crystalline, grey marble; dark grey to black phyllite and dark green gabbro sills and dykes (OSg)

pale green and dark purplish brown, thinly banded calc-silicate rock with lesser black schist, marble and dark green gabbro dykes and sills (OSg)

black, locally calcareous, carbonaceous phyllite or schist; commonly contains thin quartzose siltstone interbeds; interbedded with dark green gabbro dykes and sills (OSg)

pale to dark grey, foliated marble

### UPPER PROTEROZOIC-CAMBRIAN

**Mount Mye formation**

brownish grey, noncalcareous, pervasively foliated phyllite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OSg)

brownish grey, noncalcareous, pervasively foliated muscovite-biotite schist; may contain staurolite, garnet, andalusite, or kyanite; locally indistinctly bedded; contains minor siltstone, marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OSg)

pale green and dark purplish brown, thinly banded calc-silicate rock; contains marble and silicified marble beds and dark green gabbro dykes and sills (OSg)

dark to pale grey, medium crystalline marble; typically contains abundant boudins of calc-silicate rock and/or quartz; locally contains coarsely crystalline garnet-pyroxene stam

black phyllite to schist; locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills (OSg)

### SYMBOLS

geological contact (defined, approximate, assumed).....

fault or vein-fault, displacement unknown (defined, approximate, assumed).....

thrust fault (defined, approximate, assumed, teeth on hanging wall).....

normal fault (defined, approximate, assumed, dot on downthrown side).....

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

fold surface axial trace (upright anticline, syncline, overturned anticline, syncline).....

metamorphic boundary (symbol on higher grade side).....

bedding (tops not known).....

foliation (one tick indicates earliest phase of deformation, two or more ticks indicate subsequent phase(s) of deformation).....

foliation (phase of deformation unknown).....

lineation (one arrow indicates earliest phase of deformation, two or more arrows indicate subsequent phase(s) of deformation).....

joint.....

igneous compositional banding.....

igneous mineral lineation.....

fault plane orientation, shear band (C-bands) orientation.....

shear band plane of flattening (S bands).....

mineral lineation/banding associated with shear bands.....

apparent dip of measured bedding, foliation (in cross-section).....

foliation form lines in cross-section.....

limit of outcrop, subcrop.....

projection to surface of mineralized volume.....

limit of mapping.....

isotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number.....

fossil sample, includes sample reference number.....

barren fossil sample, includes sample reference number.....

geochemical sample-whole rock with major oxides, minor and trace elements, includes assay number and reference.....

survey control station with station name and elevation (in metres).....

diamond drill hole collar (overburden depth/total depth) in metres.....

rotary drill hole collar (overburden depth/total depth) in metres.....

field station.....

trench.....

line of cross-section.....

primary road.....

secondary road, trail, cut line.....

| MINERAL OCCURRENCES |   |                   |
|---------------------|---|-------------------|
| Yukon MINFILE       |   |                   |
| 105K/16             | ★ | BRIDGE (MAG, TED) |
| 105K/17             | ★ | FAIR-TAN          |
| 105K/18             | ★ | TAKU              |
| 105K/19             | ★ | GLYN (WEDGE)      |
| 105K/20             | ★ | KIM               |
| 105K/21             | ★ | CESSNA            |

Doorkin, R. 2003. Yukon MINFILE: a database of mineral occurrences. Yukon Geological Survey, CD-ROM.

| ISOTOPIC AGE DATES |              |        |           |                         |      |
|--------------------|--------------|--------|-----------|-------------------------|------|
| Sample             | Date         | System | Mineral   | Comments                | Ref  |
| GBCT-157           | 258±13 Ma    | K-Ar   | muscovite | metamorphic cooling age | (21) |
| GBCT-158           | 260±3 Ma     | K-Ar   | muscovite | metamorphic cooling age | (3)  |
| GBCT-159           | 261±2 Ma     | K-Ar   | muscovite | metamorphic cooling age | (3)  |
| GBCT-160           | 98±5 Ma      | K-Ar   | muscovite | intrusion cooling age   | (20) |
| GBCT-161           | 97±5 Ma      | K-Ar   | biotite   | intrusion cooling age   | (20) |
| GBCT-162           | 103.9±1.5 Ma | Lu-Hf  | zircon    | intrusion age           | (18) |
| Faro IIIa          | 258±7 Ma     | Lu-Hf  | zircon    | metamorphic peak        | (15) |
| Faro IIIb          | 258±7 Ma     | Lu-Hf  | zircon    | metamorphic peak        | (15) |
| Faro IIIc          | 257±8 Ma     | Lu-Hf  | zircon    | metamorphic peak        | (15) |
| Faro IIId          | 256±8 Ma     | Lu-Hf  | zircon    | metamorphic peak        | (15) |
| HBCT-1             | 251±15 Ma    | Sm-Nd  | zircon    | metamorphic peak        | (14) |

Abbreviations: w-whole rock; m-mineral; g-granite; o-orthopyroxene

| FOSSILS          |          |                             |         |
|------------------|----------|-----------------------------|---------|
| OSC Location No. | Material | Age Range                   | Ref     |
| C-304121         | condonot | Late Triassic, Early Norian | (12,14) |
| C-305665         | condonot | Middle Devonian             | (13)    |
| C-157777         | condonot | Late Triassic-Cambrian      | (14)    |

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