

LEGEND

Relative ages of the units within the Archean for the most part, are uncertain and no chronological order is implied.

QUATERNARY

Q Glacial, fluvial, and marine deposits

PALEOPROTEROZOIC

Psc Baker Lake Group: South Channel Formation; polymictic, clast-supported conglomerate; sandstone

Pgr Promise Point granite, monzogranite; biotite-bearing, massive to weakly foliated, pink to salmon, equigranular to porphyritic; may contain disseminated magnetite and fluorite; south and southeast of Butts Lake this unit contains abundant xenoliths

Pdl Phlogopite-lamprophyre and mafic syenite dykes

Pdi Diorite to gabbro

Py Mafic syenite

Pdd Diabase dykes

Pgm Straight gneiss, mylonite; principally derived from tonalite to granite protoliths; Big lake (Blasz) and Akunak Bay (ABsz) shear zones (hatched units) includes other lithologies; in part includes reactivated Archean straight gneiss and mylonite

Pd Diabase dykes (correlative to ca 2.19 Ga MacQuoid swarm); predominantly east-trending, in part plagioclase phyrlic; weakly deformed and metamorphosed

ARCHEAN AND/OR PALEOPROTEROZOIC

A'gb Gabbro; massive to weakly foliated, coarse-grained; includes subordinate ultramafic rocks, pyroxenite

A'di Diorite to gabbro; weakly to well foliated

A'Ucx Uvauk complex; layered anorthosite-mafic granulite-gabbro suite cut by diorite sheets; for the most part transformed into mylonite/ultramylonite; in part includes Archean diorite and anorthosite

ARCHEAN

Atp Tonalite plutons; massive to well foliated; in part locally well lineated (L-tectonite); may contain fine-grained, disseminated magnetite

Adt Tonalite to diorite; weakly to well foliated, locally gneissic; minor gabbro

Aan Anorthositic gabbro

Agb Gabbro; well foliated; occurs as sills and plugs; intruded by unit Atp

At Tonalite (gneissic); layered to banded hornblende-biotite orthogneiss; includes discontinuous layers of semipelite/psammite (unit As); may contain abundant xenoliths of metamafic rocks (unit Av), and remnants of banded iron-formation

Ag K-feldspar, augen granite-granodiorite; well foliated, in part mylonitic

Am Amphibolite; mainly derived from mafic volcanic rocks (unit Av)

Adi Cross Bay complex: diorite to gabbro (gneissic); well foliated and well lineated

Aif MacQuoid Homocline
Banded iron-formation (oxide and silicate facies)

Av Intermediate, mafic, and minor felsic volcanic rocks, volcanoclastic rocks interpreted as lithic and crystal tuffs, minor volcanoclastic breccia, and minor gabbro sills; partly metamorphosed to garnet amphibolite

Av Mafic volcanic rocks with subordinate intercalated volcanoclastic rocks; locally preserved strained pillows; in part metamorphosed to garnet amphibolite and garnet-chlorite schist

Aq Quartz arenite and polymictic conglomerate cut by numerous pegmatitic and mafic dykes of different generations

As Metasedimentary rocks; semipelite/psammite with garnet+biotite± andalusite±kyanite±sillimanite schist/paragneiss; local metamorphosed quartz-magnetite banded iron-formation

Outcrop (observed)	..... x
Lithological boundary (approximate) ~~~~~
Limit of geological mapping	..... . . . . .
Bedding (top known, unknown)	..... 45° ↘ ↗
Pillow (top unknown) ↘ ↗
Main foliation (generation unspecified: inclined, vertical, dip unknown)	..... 10° ↘ ↗
Mineral lineation (generation unspecified) ↗ ↘ ↗
Fold axis (generation unspecified) ↗ ↘ ↗
Fold style (U-, S-, Z-folds; unknown generation) ↗ ↘ ↗
Fault (approximate trace; inferred) - - - - -
Axial trace of major fold (F ₁ antiform, synform) ↑ ↓
Axial trace of major fold (F ₂ antiform, synform) ↑ ↓
Axial trace of major fold (unspecified generation: antiform, synform, direction of plunge) ↑ ↓ →
Andalusite	..... An
Kyanite	..... Ky
Sillimanite	..... Si
Cordierite	..... Co
Garnet	..... Gt
Staurolite	..... St
Clinopyroxene	..... Cpx
Orthopyroxene	..... Opx
U-Pb isotopic ages (zircon, baddeleyite, titanite; see Table 1)	..... 1
P-T estimates and SHRIMP ages (monazite, zircon; see Table 2)	..... 2
Gossan ▲
Mineral prospects (Sandhill (SH), Suluk (SUL)) ◆
Gold, polymetallic, and base-metal occurrences (Au, Zn, Ag, Cu) ⊗
Diamondiferous dyke (A - Akluilâk; V - V Day) ★
Carving stone locality, other potential sites	..... + x