

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

Pdd⁹⁰
Diabase dykes

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

Pd⁹⁰
Diabase dykes (correlative to ca 2.19 Ga MacQuoid swarm); predominantly east-trending, in part plagioclase phyric; 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

MacQuoid Homocline
Aif
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)	×
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 - Akluiĭāk; V - V Day)	★
Carving stone locality, other potential sites	+ ×