PHANEROZOIC

CAINOZOIC

QUATERNARY

Qa — Alluvium—clay, silt, sand, and gravel; in channels, flood plains, and small fans on lake margins

Czts | Cztd

Czts — Evaporite interbedded with clay, silt, and sand in playas
Cztd — Sand, silt, clay, and gypsum in stabilized dunes adjacent to playas

Czc | Czs | Czl | Czk | Czw

Czc — Colluvium—gravel, sand, and soil as sheetwash and talus; includes laterite fragments
Czs — Sand plain—yellow sand; quartzo-feldspathic sand over granitoid rock
Czl — Laterite (ferricrete) and reworked products; includes carbonate nodules
Czk — Calcrete; mainly nodular form
Czw — Weathered rock; protolith unrecognizable

PROTEROZOIC

Ꝑdy — Mafic and ultramafic dykes, in part granophyric; interpreted from aeromagnetic data where dashed
Ꝑdyl—Ballona Dyke, Ꝑdyk—Kalpini Dyke

q | p — Veins, dykes, and pods: q—quartz; p—pegmatite

ARCHAEAN

Ag | Agp | Agpp | Agb | Agm

Ag — Granitoid rock, undivided; includes pegmatite and aplite
Agp — Porphyritic granitoid rock
Agpp — Granitoid rock and pegmatite
Agb — Granitoid rock interleaved with amphibolite
Agm — Monzogranite

Ap | Apq

Ap — Felsic intrusive porphyry with predominantly feldspar phenocrysts
Apq — Felsic intrusive porphyry with quartz and feldspar phenocrysts

As | Ash | Aso | Asp | Ass | Ac

As — Sedimentary and volcaniclastic rocks, undivided
Ash — Slate and shale, with minor siltstone and sandstone; commonly silicified; includes felsic volcaniclastic rock
Aso — Oligomictic conglomerate; subordinate sandstone; conglomerate clasts mainly felsic volcanic rock
Asp — Polymictic conglomerate; subordinate sandstone
Ass — Sandstone; locally associated with siltstone or conglomerate
Ac — Chert, banded chert, silicified (black) shale and slate, and silicified exhalite

Af | Afv | Afp | Aft | Afx | Afs

Af — Felsic (acid to intermediate) volcanic and intrusive rocks, undivided
Afv — Felsic volcaniclastic-volcanic rock, including tuff; mainly dacitic but ranging from rhyolitic to andesitic in composition
Afp — Porphyritic to porphyroclastic felsic rock of uncertain origin
Aft — Felsic tuff; subordinate felsic volcanogenic sedimentary rock
Afx — Felsic fragmental rock, coarse-grained; volcanic or volcaniclastic derivation
Afs — Schist derived from felsic volcanic, sub-volcanic, and volcaniclastic rock

Ai | Aiv | Aia | Ais

Ai — Intermediate rock, mainly dacite to andesite but may include minor rhyodacite, rhyolite, and basaltic andesite; vesicular and/or amygdaloidal locally
Aiv — Intermediate tuff and extrusive rock
Aia — Andesite; commonly vesicular and/or amygdaloidal
Ais — Schist derived from intermediate rock

Ao | Aod | Aodp | Aog | Aogp

Ao — Dolerite-gabbro; medium- to coarse-grained
Aod — Dolerite
Aodp — Porphyritic dolerite
Aog — Gabbro-gabbronorite; includes minor pyroxenite in Carr Boyd Rocks mine area
Aogp — Porphyritic gabbro

Ab | Abp | Abr | Abd | Abdp | Abdg | Abm | Abv | Aby
Abl | Abx | Abs | Abu

Ab — Basalt; highly weathered and/or ferruginized; includes dolerite and gabbro; (c) carbonated
Abp — Porphyritic basalt with plagioclase phenocrysts
Abr — Basaltic tuff (subsurface only)
Abd — Basalt and dolerite
Abdp — Porphyritic basalt-dolerite with plagioclase phenocrysts
Abdg — Basalt, dolerite and gabbro; thin differentiated units (probably flows)
Abm — High-Mg basalt; (komatiitic basalt)
Abv — Variolitic basalt, commonly with pillow structures
Aby — Amygdaloidal basalt
Abl — Pillowed basalt
Abx — Basaltic breccia
Abs — Schist derived from basic rock
Abu — Mafic-ultramafic rock; protolith unknown

Ama | Ams | Amac | Amg

Ama — Amphibolite; mostly after basalt, dolerite, and gabbro; commonly foliated and/or lineated
Ams — Intermediate to basic schist or gneiss; includes some acid components
Amac — Amphibolite and calc-alkaline gneiss; commonly foliated and/or lineated; calc-alkaline gneiss commonly clinopyroxene-bearing and locally garnet-bearing
Amg — Amphibolite and granitoid rock interleaved; amphibolite predominant

Au | Auk | Aup | Aus | Aux | Auc | Aur

Au — Ultramafic rock, undivided; commonly weathered or ferruginized; variably carbonated; includes high-Mg basalt
Auk — Komatiite
Aup — Peridotite; serpentinized
Aus — Serpentinite
Aux — Pyroxenite; locally associated with gabbro and peridotite; orthopyroxenite abundant in the Carr Boyd Rocks Complex
Auc — Talc-carbonate(-serpentine) rock; commonly schistose
Aur — Tremolite-chlorite rock; commonly schistose

Metamorphosed at greenschist to amphibolite facies