CAINOZOIC

Metamorphosed at middle greenschist to upper amphibolite facies

Qa Alluvium—clay, silt, sand, and gravel; in stream channels and flood plains

Czts Cztd

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

Czg Czs Czl Czz Czc

Czc Colluvium-gravel and sand as sheetwash and talus; includes laterite fragments

Quartzo-feldspathic sand over granitoid rock Czg

Czs Sandplain-yellow sand with some pisolitic laterite pebbles; includes stabilized dunes

CzI

Czz Silcrete



Mafic dykes; mafic and ultramafic dykes inferred from aeromagnetic data where dashed Pdyi — Pinjin Dyke



Veins and dykes: q - quartz, g - granitoid, p - pegmatite



Granitoid rock, undivided; includes strongly weathered rock Ag

Biotite monzogranite; even-grained and K-feldspar porphyritic textures; locally weakly foliated Agm

GALVALLEY MONZOGRANITE: prominent K-feldspar megacrysts; local foliation defined by aligned K-feldspar and biotite

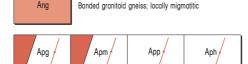
GOAT DAM MONZOGRANITE: with minor biotite Agg Granodiorite; plagioclase-phyric; with biotite

Syenogranite; with minor biotite Agy

Syenite Ags

Agq Quartz syenite to quartz monzonite; with hornblende and local minor clinopyroxene; numerous mafic enclaves

Tonalite to quartz diorite; with hornblende and biotite



Apg Granitoid porphyry; sill or dyke; prominent feldspar, quartz and/or biotite phenocrysts

Apm Monzogranite porphyry; characteristic K-feldspar megacrysts and small plagioclase phenocrysts; massive to weakly foliated; substantial dykes and stocks

Plagioclase porphyritic, biotitic felsic schist; numerous euhedral plagioclase and rare quartz phenocrysts; strongly foliated; narrow sills and dykes

Aph Plagioclase-hornblende porphyry



Ash Grey slate, siltstone, and quartzo-feldspathic mica schist; well foliated; with biotite, and local garnet, andalusite and/or staurolite porphyroblasts

Aso Oligomictic conglomerate; abundant felsic porphyry and rare chert clasts in quartzo-feldspathic matrix

Quartzo-feldspathic, micaceous slate, siltstone, and sandstone; well foliated; interlayered with feldspar-phyric schist of felsic valcanic and valcaniclastic derivation; includes chloritic and carbonate-bearing schist Asf

Chert, locally grey-white banded; includes variably silicified grey to black slate, finely layered and locally pyritic Ac

Banded iron-formation, oxide facies; quartz-magnetite(-biotite) rock interlayered with chert; interpreted from aeromagnetic data where dashed Aci

Acis Banded iron-formation, silicate facies; grunerite(-hornblende) layers interlayered with chert

Afv	Afp	Aft Atx	Afs
-----	-----	---------	-----

Afv Felsic volcanic and volcaniclastic rock; variably foliated; with prominent feldspar and/or quartz phenocrysts or clasts; includes fragmental rocks, and crystal-lithic and finely layered tuffs

Afp Feldspar-quartz porphyry; with biotite; volcanic and/or subvolcanic derivation

Aft  $Felsic\ tuffaceous\ rock;\ finely\ banded;\ foliated;\ fine-\ to\ medium-grained\ quartz\ and\ feldspar\ phenocrysts$ 

Afx Felsic fragmental volcanic rock

Afs Quartzo-feldspathic micaceous schist; felsic volcanic, subvolcanic and/or volcaniclastic derivation; with local staurolite, garnet and/or andalusite



Intermediate volcanic rock; andesite with feldspar and hornblende phenocrysts; epidote and/or carbonate alteration common; includes feldspar-quartz-chlorite-hornblende schist Aiv

Intermediate schist; hornblende-biotite-quartz-feldspar schist with variable hornblende content; locally feldspar-phyric and garnettiferous; local relict fragmental layers; with interlayered felsic schist and amphibolite Ais



Mafic intrusive rock, undivided; dolerite, gabbro

Aop Dolerite-gabbro, with coarse plagioclase phenocrysts

Aog Gabbro, with minor pyroxenite and quartz gabbro

Ab	Abp Abd	Abm	Aby	Abi Abs	Abo Abi

Ab Basalt, undivided; includes feldspar-hornblende or chlorite schist; includes strongly weathered rock

Basalt, with medium- to coarse-grained feldspar phenocrysts Abp

Basalt, dolerite-textured; amygdaloidal; local epidote alteration Abd Abm Komatiitic basalt with quenched pyroxene (amphibole) texture; variolitic

Abv Basalt, variolitic; pillowed; komatiitic affinity

Basalt to basaltic andesite; amyadaloidal, feldspar-phyric; with hyaloclastite and fragmental/tuffaceous layers; hornblende-feldspar schist with ovoid quartz aggregates Abi

Basaltic schist, strongly metasomatized; includes carbonated rock, biotite-hornblende and clinopyroxene-tremolite schist Abs

Aba Basaltic schist to amphibolite; local epidote alteration; includes garnet- and clinopyroxene-bearing layers

Basaltic schist and amphibolite (Aba, Ama) interlayered with interme



Amphibolite and quartz-feldspar-hornblende schist; pervasively foliated and recrystallized; commonly banded; clinopyroxene-, cummingtonite-, and/or gamet-bearing layers; with small hornblende-quartz-feldspar aggregates Matic fragmental schist, medium-grained; irregularly layered; includes garnet-amphibole-feldspar rock with felsic schist fragments, banded amphibolite, and gabbroic-textured rock; with interlayered Afs, Afv and Ais



Ultramafic rock, undivided; interpreted from aeromagnetic data where dashed

Peridotite, serpentinized; with local pyroxene phenocrysts

Pyroxenite Aux

Aut Talc-chlorite schist: with local carbonate

Tremolite schist; with local magnetite porphyroblasts; with minor talc-chlorite schist Aur