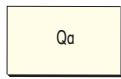


PHANEROZOIC

QUATERNARY

CAINOZOIC



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



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



Czc Colluvium — gravel and sand as sheetwash and talus; includes laterite fragments  
 Czg Quartzo-feldspathic sand over granitoid rock  
 Czs Sandplain — yellow sand, with some pisolitic laterite pebbles  
 Czl Laterite and reworked products  
 Czf Residual, deep red, unconsolidated soil; overlies mafic and ultramafic Proterozoic dykes



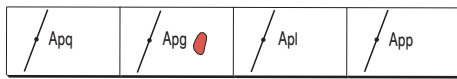
Mafic and ultramafic dykes; interpreted from aeromagnetic data where dashed.  
 EdyC — Celebration Dyke, Edyr — Randalls Dyke



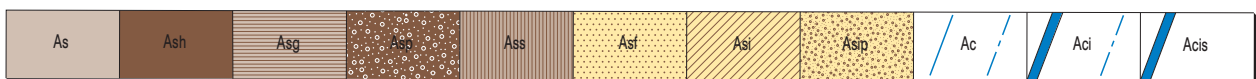
Veins and dykes: q — quartz, g — granitoid, p — pegmatite



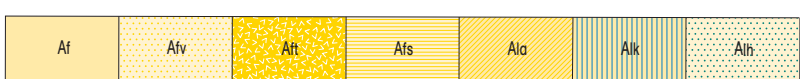
Ag Granitoid, undivided  
 Agm Monzogranite; common K-feldspar phenocrysts, with biotite and local hornblende  
 Agmc **COWARNA MONZOGRANITE**: K-feldspar phenocrysts  
 Agmy **YINDI MONZOGRANITE**: even-grained  
 Agmb **BULYAIRDIE MONZOGRANITE**: perthitic K-feldspar megacrysts with hornblende  
 Agmp Porphyritic biotite monzogranite to monzogranite porphyry



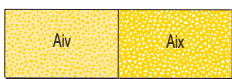
Apq Felsic porphyry, sill or dyke; small quartz and/or feldspar phenocrysts  
 Apg Granitoid porphyry, includes granodiorite porphyry; prominent plagioclase, quartz and/or biotite phenocrysts  
 Apl Hornblende lamprophyre  
 App Plagioclase-phyric biotite felsic porphyry; numerous euhedral plagioclase and few quartz phenocrysts; strongly foliated; narrow sills and dykes



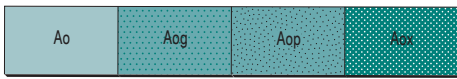
As Sedimentary rock, undivided  
 Ash Grey slate, siltstone, and minor sandstone; commonly well cleaved; with biotite, and local garnet, andalusite, stauralite, and/or cordierite porphyroblasts  
 Asg Greywacke, with minor interbedded siltstone; cross-bedded and graded; biotite bearing; widespread carbonate alteration  
 Asp Polymictic conglomerate, with subordinate sandstone; faceted pebbles and boulders of granitoid, felsic porphyry, gabbro, chert, and mafic schist  
 Ass Sandstone, with minor conglomerate and siltstone  
 Asf Quartzo-feldspathic to micaceous epiclastic slate, siltstone, and sandstone interleaved with feldspar-phyric schist of felsic volcanic and volcanoclastic derivation  
 Asi Intermediate sedimentary and volcanoclastic rocks; well banded and foliated; amphibolite-biotite-feldspar-quartz schist, locally garnetiferous; biotite(-garnet) slate and feldspar-phyric felsic schist  
 Asip Conglomeratic intermediate sedimentary and volcanoclastic rocks; pebbles predominantly amphibole-feldspar-quartz-garnet rock and feldspar-phyric felsic schist  
 Ac Chert, locally grey and white banded; includes silicified grey to black slate; finely layered and locally pyritic; interpreted where dashed (section only)  
 Aci Banded iron-formation, oxide facies; quartz-magnetite(-biotite) rock; interpreted from aeromagnetic data where dashed  
 Acis Banded iron-formation, silicate facies; includes biotite-grunerite(-hornblende) siliceous slate



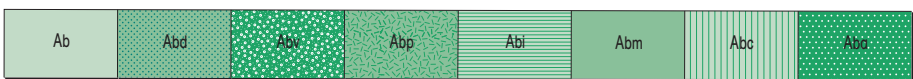
Af Felsic (acid to intermediate) volcanic rock, undivided  
 Afv Felsic volcanic and volcanoclastic rock; foliated; porphyritic with prominent feldspar and/or quartz phenocrysts or clasts; includes fragmental rocks and crystal lithic and finely layered tuffs  
 Aft Felsic tuffaceous rock; finely banded; foliated; fine- to medium-grained quartz and feldspar phenocrysts  
 Afs Quartzo-feldspathic micaceous schist derived from felsic volcanic, subvolcanic, and/or volcanoclastic rock  
 Ala Quartz-andalusite rock with local chloritoid-quartz-mica rock within felsic volcanic sequence  
 Alk Quartz-kyanite-andalusite rock with local chloritoid; local quartz clasts  
 Alh Quartz-chloritoid-kyanite rock



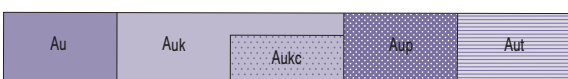
Aiv Intermediate volcanic rock; andesite to basalt with feldspar and hornblende phenocrysts; amygdaloidal; epidote and/or carbonate alteration common; includes feldspar-quartz-chlorite-hornblende schist  
 Aix Intermediate volcanic rock, with fragmental and tuffaceous textures; epidote and carbonate alteration



Ao Mafic intrusive rock, undivided  
 Aog Gabbro, with minor pyroxenite and quartz gabbro  
 Aop Feldspar-phyric dolerite and gabbro  
 Aox Pyroxenite and pyroxenitic gabbro; with scattered euhedral feldspar phenocrysts



Ab Basalt, undivided; includes feldspar-hornblende or chlorite schist; locally feldspar-phyric  
 Abd Basalt and dolerite; massive, ophitic textured  
 Abv Basalt with abundant varioles; pillowed  
 Abp Basalt, feldspar-phyric  
 Abi Basalt to basaltic andesite; amygdaloidal, feldspar-phyric; contains brecciated flow tops and fragmental/tuffaceous layers  
 Abm High-Mg basalt with quenched pyroxene (amphibole) texture; includes ocellar-textured basalt  
 Abc Basalt, extensively carbonated; includes massive carbonate lenses  
 Aba Amphibolite, derived from basalt



Au Ultramafic rock, undivided  
 Auk Komatiite; olivine cumulate zones dominate spinifex-textured zones; includes tremolite-chlorite and talc-chlorite schist  
 Aukc Komatiite, extensively carbonated; includes carbonate-talc-chlorite schist and massive carbonate lenses  
 Aup Peridotite, serpentinitized; locally with rodingite lenses  
 Aut Talc-chlorite(-carbonate) schist; minor tremolite-chlorite schist

ARCHAEAN

Metamorphosed at greenschist and lower to middle amphibolite facies