

Colluvial units

C Colluvium derived from different rock types; includes gravel, sand, and silt
 Cr Colluvium, footslope
 Cg Colluvial talus derived from different rock types
 Cf Ferruginous gravel and reworked ferruginous duricrust
 Cg Quartzofeldspathic gravel, sand, and silt, commonly derived from granitic rock and associated weathering products
 Ck Colluvium dominated by reworked calcareite; includes loose nodules and irregular fragments
 Cq Quartz-vein debris
 Cz Colluvium of silcrete; includes gravel, sand, and silt
 Czi Colluvium dominated by ferruginous silcrete debris

Sheetwash units

W Clay, silt, and sand in extensive fans; local ferruginous gravel
 Wf Clay, silt, and sand with abundant ferruginous grit
 Wk Clay, silt, and sand with abundant calcareite nodules
 Wkpz Clay, silt, and sand with calcareite nodules; includes fragments commonly derived from granitic rocks
 Wq Clay, silt, and sand with abundant quartz-vein debris
 Wqi Clay, silt, and sand with quartz-vein and silcrete debris with iron cement
 Wz Wash of silcrete; includes gravel, sand, and silt



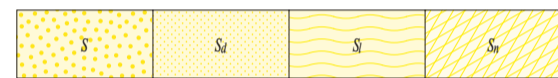
Alluvial units

A Clay, silt, sand, and gravel in channels and on floodplains
 Au Clay, silt, sand, and gravel on alluvial plains
 Auk Calcrete and carbonate-cemented material on floodplains
 A Clay, silt, sand, and gravel in channels
 Auk Calcareous clay, silt, and sand with calcareite in braided swales on floodplains
 Ap Clay and silt in claypans
 A Stream bar, commonly dominated by sand, in fluvial channels
 Au Superficial channel commonly terminating at a sheetwash zone, ephemeral
 Av Clay, silt, sand, and gravel in alluvial fans
 Al Calcrete and carbonate-cemented alluvium in fluvial channels



Lacustrine units

Ld Sand, silt, and gypsum in dunes adjacent to and within playa lakes
 Lm Mixed dunes, evaporite, and alluvial deposits; typically adjacent to playa lakes
 Lp Saline and gypsiferous evaporite deposits, clay, silt, and sand in playa lakes



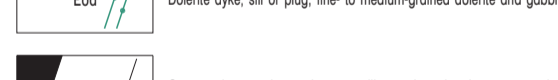
Sandplain units

S Residual and eolian sand with minor silt and clay; low vegetated dunes locally common
 Sd Sand in stabilized dunes
 Sl Longitudinal dunefield
 Sn Net-like dunefield

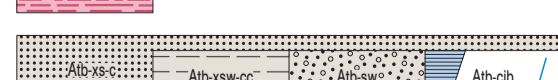


Residual or relict units

Rws Residual sedimentary rocks; weathered
 Rf Ferruginous duricrust, massive to rubby; includes iron-cemented reworked products
 Rz Silcrete
 Rzi Ferruginous silcrete
 Rzu Silica caprock over ultramafic rock; local chalcodony and chrysoprase
 Rgpz Quartzofeldspathic sand, gravel, and minor silcrete over granite; sparse granite outcrop; includes mottled and leached zones of weathering profile
 Rd Undivided residual or relict material; mainly ferruginous and siliceous duricrust; minor calcareite and kaolinized rock
 Rdpz Silcrete and/or kaolinized granitic rock
 Rk Calcrete

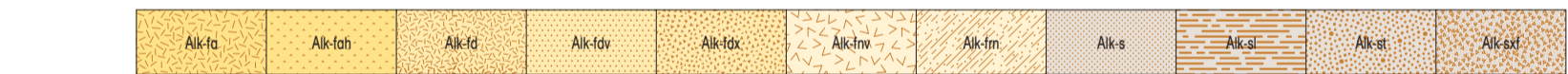


c. 2664 Aps-gmys **POINT SALVATION MONZOGRANITE:** biotite monzogranite; fine- to coarse-grained; seriate to K-feldspar-porphyritic; abundant leucogranite layers and schlieren; metamorphosed
 c. 2666 Ang-gm **NGARRUTJI MONZOGRANITE:** medium- to coarse-grained monzogranite with biotite and local hornblende; minor granodiorite; local pegmatite; metamorphosed
 Ang-jgm-on Medium- to coarse-grained monzogranite with xenoliths of mafic intrusive rock and minor felsic volcanic rocks; metamorphosed
 AmgsY Foliated metagranite, locally gneissic; may include amphibolite lenses; includes deeply weathered rock
 c. 2679 AgfY Alkali-feldspar granite; metamorphosed
 AgglY Xenolith-bearing granodiorite; metamorphosed
 AgmY Monzogranite; common biotite and rare local hornblende; minor granodiorite and syenogranite; fine- to coarse-grained; equigranular to porphyritic; massive to weakly foliated; metamorphosed
 AgmagY Garnet-bearing, fine-grained monzogranite; metamorphosed
 AgmpY Porphyritic monzogranite; fine- to coarse-grained with feldspar megacrysts; locally seriate; metamorphosed
 AgfY Granitic rocks, undivided; metamorphosed; includes deeply weathered rock



TOBIN FORMATION

Atb-xc Wacke, lithic sandstone, siltstone, abundant chert and banded iron-formation, and minor felsic volcanoclastic rocks; metamorphosed
 Atb-xw-cc Wacke and lithic sandstone with abundant chert; includes minor banded iron-formation; metamorphosed
 Atb-sw Wacke and lithic sandstone, with minor felsic volcanoclastic rock; metamorphosed
 Atb-cib Banded iron-formation and ferruginous banded chert; metamorphosed

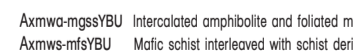


PALKAPITI FORMATION

Alk-fa Andesite with minor dacite; common plagioclase and/or hornblende phenocrysts; metamorphosed
 Alk-fah Andesitic volcanic and volcanoclastic rock; coherent flow; metamorphosed
 Alk-fd Dacite, commonly tufaceous; locally brecciated; includes minor rhyolite, rhyodacite, and andesite; metamorphosed
 Alk-fdv Dacitic volcanoclastic rock; common fragmental textures; metamorphosed
 Alk-fdx Dacitic to rhyolitic breccia; includes agglomerate and tufaceous rocks; metamorphosed
 Alk-fnv Felsic volcanoclastic and volcanic rock, undivided; minor sandstones and siltstones; metamorphosed
 Alk-frn Rhyolitic sandstone and siltstone; metamorphosed
 Alk-s Sedimentary rock, undivided; includes sandstone, siltstone, shale, and chert; metamorphosed; commonly deeply weathered
 Alk-sl Siltstone and mudstone with minor sandstone; metamorphosed
 Alk-st Sandstone with minor conglomerate, siltstone, and shale; metamorphosed
 Alk-sxt Breccia with felsic volcanic clasts; metamorphosed

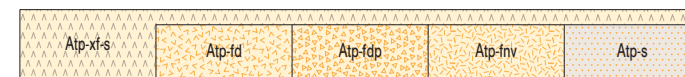


Axmwa-mgssYBU Intercalated amphibolite and foliated metagranitic rocks; includes pegmatite veins (section only)
 Axmws-mfsYBU Mafic schist interleaved with schist derived from felsic volcanic and/or volcanoclastic rock



Axmos-mgssYBU Foliated metamorphic intrusive rock interleaved with strongly foliated metagranitic rock (section only)
 AbbYBU Basalt; locally porphyritic; includes dolerite-textured zones; metamorphosed

c.2683



TOPPIN HILL FORMATION

Alp-xf-s Felsic volcanic and volcanoclastic rock, with minor siliciclastic sedimentary rocks; metamorphosed (section only)
 Alp-fd Dacite, rhyodacite, and minor andesite; commonly feldspar-phryic; metamorphosed
 Alp-fdp Quartz- and feldspar-phryic dacite, and minor rhyolite; metamorphosed
 Alp-fnv Felsic volcanoclastic and volcanic rocks with minor sandstone and siltstone; metamorphosed
 Alp-s Sandstone, siltstone, and minor felsic volcanoclastic rocks; metamorphosed



AmnqYYA Quartzofeldspathic gneiss, locally strongly foliated
 AmdssYYA Foliated metasedimentary rock, undivided; includes metasandstone, metasilstone, metashale, and quartz-mica schist; commonly deeply weathered
 AmsmYYA Micaceous schist
 AsYYA Clastic sedimentary rock, undivided; metamorphosed
 AsfYYA Siltstone, mudstone, sandstone; minor shale; metamorphosed
 AsfYYA Siltstone and mudstone with minor sandstone; metamorphosed
 AstqYYA Fine- to medium-grained, quartz-rich sandstone; minor shale and mudstone; metamorphosed



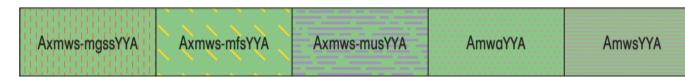
AmfasYYA Schist derived from andesitic and minor dacitic volcanic and volcanoclastic rock
 AmfshYYA Felsic schist derived from felsic volcanoclastic rock
 AfaYYA Andesite, commonly with plagioclase and/or hornblende phenocrysts; metamorphosed



c.2737

ARGUS IGNEOUS COMPLEX

Ags-moa Amphibolite; medium- to coarse-grained, derived from gabbro; locally includes interleaved talc-serpentine-chlorite schist
 Ags-mfs Fine- to coarse-grained meta-anorthosite; contains minor interleaved amphibolite and talc-serpentine-chlorite schist



Axmws-mgssYYA Intercalated mafic schist and foliated metagranite; minor metasedimentary rocks, commonly schistose
 Axmws-mfsYYA Mafic schist interleaved with schist derived from felsic volcanic and/or volcanoclastic rock
 Axmws-musYYA Interleaved metamorphic, meta-ultramafic volcanic, and metamorphic volcanoclastic rocks; strongly deformed and carbonatized
 AmwaYYA Amphibolite; locally schistose
 AmwsYYA Mafic schist with abundant chlorite and actinolite; local amphibolite



Axms-muYYA Metamorphic volcanic rock and meta-ultramafic rock, undivided; includes talc-chlorite-(carbonate) and tremolite-chlorite schist
 AmbsYYA Schistose metamorphic volcanic rock; includes medium-grained zones
 Axb-ogYYA Mafic volcanic rock with minor gabbro; metamorphosed (section only)
 AbbYYA Basalt; locally porphyritic; includes dolerite-textured zones; metamorphosed



MOUNT VENN IGNEOUS COMPLEX

Avn-jadl-fn Leucodolerite with xenoliths of felsic volcanic and clastic sedimentary rocks of the PALKAPITI FORMATION; metamorphosed
 Avn-mogs Medium- to coarse-grained mafic schist
 Avn-odl Leucodolerite; metamorphosed
 Avn-og Gabbro; minor pyroxenite or quartz gabbro components; metamorphosed
 Avn-oglw Megacrystic leucogabbro; metamorphosed
 Avn-ogly Layered leucogabbro; metamorphosed
 Avn-ogy Layered gabbro; metamorphosed