Ora Ors Ord Lacustrine deposits—clay, silt and sand; generally saline and gypsiferous. Includes minor areas of non-saline clay formerly assigned to Qrp Lacustrine deposits—silt, sand and gravel in samphire flats and swamps; adjacent to salt lakes, in major saline drainages and as thin veneer on planed bedrock Eolian deposits—white to yellow quartz sand, red-brown silty sand; in sheets and dunes, saline in part Colluvium and alluvium—pale red-brown to buff silt and sand, calcareous. Marginal to salt lakes and in major saline drainages, veneer over Czk in part QUATERNARY Eolian deposits—kopi, gypsum and clay in dunes and sheets; marginal to salt lakes Alluvium—poorly sorted dark red clay to pebble deposits; gilgai; relates to most present-day drainage; grades into Qqz Colluvium and alluvium—pale red silt and sand with quartz and feldspar grains; marginal to granitic rocks; grades into Qqz Eolian deposits—mixed red, brown and yellow sand in dunes and sheets CAINOZOIC Qqc Qqf Ogz Colluvium—mixed angular to rounded rock fragments in loam, calcareous in part; veneer on fresh and weathered bedrock Eluvium—clay and silt with ironstone pebble veneer, calcareous in part; mantles low hills Colluvium—adark red to red-brown clay, loam and sandy loam; contains sheet kankar or clay hardpan Czl Czb Gzi Czk Limonite deposits—cemented ironstone gravel and laterite Silcrete—sub-vitreous siliceous rock with angular quartz grains Jasperoidal, chalcedony, chrysoprase, magnesite, limonitic deposits over ultramafic rocks Calcrete and kankar; massive, nodular and sheet carbonate; contains minor chalcedony Deeply weathered rock; kaolinized subsequently ferruginized and silicified **TERTIARY**



PROTEROZOIC OR ARCHAEAN

ARCHAEAN

PATERSON FORMATION: poorly sorted sandstone, conglomerate, minor siltstone and claystone. Includes areas strewn with erratics which may overlie in situ deposits



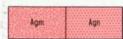
Mafic dykes-quartz dolerite, gabbro Pd



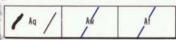
Dykes-p:pegmatite, a:aplite, g:microgranite and porphyry, q:quartz



Granite to adamellite; porphyritic, phenocrysts sparse to abundant
Biotite (less commonly amphibole) granite to granodiorite; medium to coarse-grained
Even-textured biotite granitic rocks; fine to medium-grained
Quartz-feldspar porphyry; fine to medium-grained; adamellite to granodiorite
Granodiorite to tonalite; usually coarse-grained
Strongly foliated granitic rocks



Migmatite; neosome and palaeosome easily distinguishable Migmatite; structures nebulitic and schlieric, grades into Agb



Chert, ferruginous chert Quartz-magnetite rock; black and white banded; minor chert and jaspilit Jaspilite, red and black banded; minor quartz-magnetite rock and chert



Black shale, mudstone and minor greywacke, siliceous shale; in part pyroclastic; schistose
Fine-grained felsic volcanoclastic rocks; bedded, schistose
Shale, siltstone, sandstone, minor conglognerate; often showing graded or cross-bedding
Conglomerate—generally polymictic, clasts include granite, chert, sediment, felsic to mafic extrusive and intrusive rocks Asg Asc



Quartz-feldspar porphyry; in sills, dykes and irregular bodies. Unit overlaps with Agp and g

Al	Ao	Ax	Av	Az
----	----	----	----	----

AI Ao Ax Az

Felsic extrusive rocks—rhyolite, dacite; fine-grained; some porphyritic Quartz-mica-chloritoid assemblages—altered felsic pyroclastic and extrusive rocks; schistose Pyroclastic rocks—agglomerate, breccia, tuff. Grades into Av Agglomerate—contains felsic igneous clasts; derived from and marginal to Ap and Al Mafelsic extrusive rocks, andesite to dacite, minor basalt



Mafic intrusive rocks—gabbro to diorite; medium to coarse-grained Similar to Ad but with phenocrysts of large altered feldspar. "Cat Rock" Layered mafic sills—range in composition from pyroxenite to leuco-gabbro Amphibolite, banded amphibolite, coarse-grained (contact metamorphic rock) Ad Adp Aj Am



Ab An Ah Ah

Mafic extrusive rocks—fine to medium-grained Similar to Ab, with pillow structure, variolitic texture Similar to Ab, contains phenocrysts of altered feldspar Similar to Ab, strongly carbonated Mafic hornfels and fine-grained amphibolite (contact metamorphic rock)



Serpentinite and partly serpentinized peridotite; fine to medium-grained
Altered ultramafic rocks—talo-carbonate-chlorite-serpentine assemblages, schistose
Altered ultramafic rocks—tremolite-chlorite-actinolite assemblages. Unit includes high magnesium basalts

metamorphism attains greenschist or amphibolite facies Regional