

PHANEROZOIC

PROTEROZOIC

ARCHAEAN

CAINOZOIC

MESOZOIC

PALAEOZOIC

NEOPROTEROZOIC

QUATERNARY

CRETACEOUS

JURASSIC

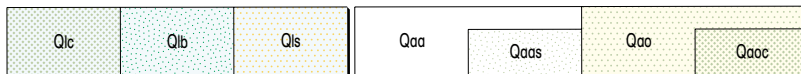
PERMIAN

Tarumiyah Group

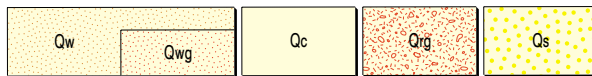
De Grey Group

Pilbara Supergroup

Gorge Creek Group



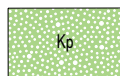
Q1c Lacustrine clay, silt, and sand in large, non-vegetated claypans  
 Q1b Lacustrine clay and silt with gilgai (crabhole) surface in claypans; generally vegetated  
 Q1s Mixed lacustrine and eolian deposits; clay, silt, and sand  
 Qaa Alluvium—undivided clay, silt, sand, and gravel in rivers and creeks  
 Qaas Unconsolidated sand, silt, and gravel in discrete channel beds  
 Qao Overbank deposits—alluvial sand, silt, and clay on floodplains adjacent to main drainage channels  
 Qaoc Alluvial sand, silt, and clay; mixed floodplain deposits (Qao) characterized by numerous small claypans



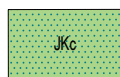
Qw Sheetwash deposits—silt, sand, and pebbles on distal fans  
 Qwg Sheetwash sand and quartz pebbles overlying and derived from granitoid rocks  
 Qc Colluvium—sand, silt, and gravel on outwash fans; scree, talus; proximal mass-wasting deposits  
 Qrg Quartzofeldspathic eluvial sand, with quartz and rock fragments; overlying and derived from granitoid rock  
 Qs Eolian sand—light- to dark-red sand in sheets, and longitudinal (seif) and chain dunes; local ironstone pebble veneer



Czak Calcrete—massive, nodular, and cavernous limestone, variably silicified; dissected valley calcrete  
 Czc Colluvium—dissected consolidated clay, silt, and sand deposits; derived from adjacent rock outcrop  
 Czcf Dissected consolidated ferruginous deposits; recemented, broken laterite rubble, ironstone pebbles, clay, silt, and sand  
 Czrf Ferruginous duricrust—includes massive, pisolitic, and nodular laterite



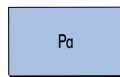
**PARDA FORMATION:** white, thin-bedded, and massive mudstone and claystone, and minor lenses of fine-grained sandstone; macrofossils; shallow-marine deposits



**CALLAWA FORMATION:** very fine- to coarse-grained sandstone, ferruginous towards base; siltstone and conglomerate interbeds; plant and trace fossils; mainly fluvial deposits



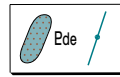
**WALLAL SANDSTONE:** sandstone with minor siltstone and conglomerate; continental and marginal marine deposits (not on map)



**PATERSON FORMATION:** diamictite, mudstone, siltstone, sandstone, and minor conglomerate; fluvio-glacial deposits



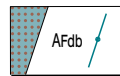
d Dolerite dyke, various ages  
 q Quartz vein, various ages



Fine- to medium-grained dolerite and quartz dolerite sills and dykes in **EEL CREEK FORMATION**



**EEL CREEK FORMATION:** black, blue, green, and grey mudstone, shale, siltstone, and thin-bedded sandstone; minor glauconitic and tuffaceous sandstone, and rhyolite tuff



**Black Range Dolerite Suite:** dolerite and medium- to coarse-grained gabbro dykes; weakly metamorphosed



**Shay Intrusion:** metamorphosed gabbro, epidotized gabbro, and quartz gabbro



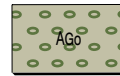
**COORAGOORA FORMATION:** fine- to coarse-grained sandstone, siltstone, shale, conglomerate, and feldspathic and lithic wacke; weakly metamorphosed



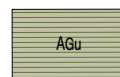
**CATTLE WELL FORMATION:** interbedded dacite tuff, welded tuff, and tuffaceous siltstone and shale, and thin-bedded sandstone, siltstone, wacke, and carbonate rock; weakly metamorphosed



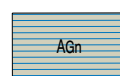
Serpentinized ultramafic dyke



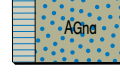
**COONIEENA BASALT:** pillowed and massive basalt, hyaloclastic breccia, and silicified basaltic andesite; metamorphosed



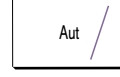
**CUNDALINE FORMATION:** weathered brown, grey-green shale, siltstone, lithic wacke, and sandstone; metamorphosed



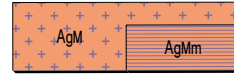
**NIMINGARRA IRON FORMATION:** banded iron-formation, jaspilite, banded and ferruginous chert, and black carbonaceous shale; metamorphosed



Basalt pebble- to cobble-conglomerate, sandstone, siltstone, and shale; metamorphosed



Tremolite—serpentine—chlorite(—talc) schist; metamorphosed ultramafic rock



**AgM MUCCAN GRANITOID COMPLEX:** metamorphosed fine- to coarse-grained monzogranite, syenogranite, granodiorite, and tonalite; massive sericite and porphyritic varieties; foliated to gneissic; minor banded granitoid gneiss (not on map)

**AgMm** Mixed monzogranite to granodiorite; fine- to coarse-grained; well foliated to gneissic; minor banded granitoid gneiss