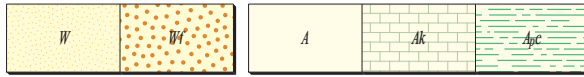


PHANEROZOIC

CAINOZOIC

QUATERNARY

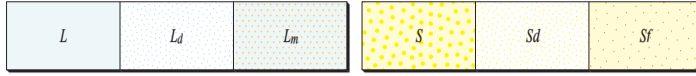


Sheetwash units

*W* Sheetwash, silt, sand, and gravel deposited on low-gradient slopes with no clear channel pattern  
*Wf* Ferruginous sheetwash, derived largely from adjacent ferricrete and ironstone areas

Alluvial units

*A* Clay, silt, sand, and gravel deposited in channels and adjoining areas within channel systems  
*Ak* Calcrete developed within alluvial systems; includes calcrete now associated with lakes  
*ApC* Claypan



Lacustrine units

*L* Clay, silt, and sand in saline lakes (playas), primarily developed in palaeodrainages  
*Ld* Silt and sand in dunes associated with lacustrine systems; primarily fringing saline playas  
*Lm* Clay, silt, and sand in mixed dune-and-playa terrain associated with lacustrine systems

Sandplain units

*S* Sand and subordinate silt of eolian and probable residual origin in sandplain; includes minor small dunes, sand reddened by iron-oxide coatings  
*Sd* Dunes of quartz sand with red iron-oxide coatings  
*Sf* Ferruginous sand, in large part residual; derived largely from underlying ferricrete and ironstone areas



Colluvial units

*C* Colluvium; sand, gravel, and silt deposited as proximal slope-deposits, generally undergoing dissection  
*Cf* Ferruginous colluvium developed as reworked ferricrete and iron-rich clastic rocks, adjacent to ferricrete and granular iron-formation



Residual units

*Rf* Ferruginous duricrust; nodular, pisolitic, and massive ferricrete, and associated debris; commonly includes overlying residual sand, developed largely on mafic igneous rocks  
*Rz* Siliceous duricrust; nodular, pisolitic, and massive silcrete, and intensely silicified rock



*d* Dolerite dyke, cuts older dolerite sills; inferred from aeromagnetic data where dashed  
*q* Quartz vein  
*go* Gossan  
*i* Ironstone

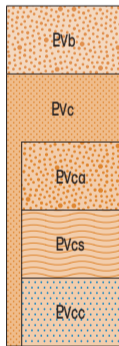
c. 1070 Ma<sup>2</sup>



*Edg* **GLENAYLE DOLERITE:** fine- to medium-grained dolerite  
*Edgw* **Weld Spring Member:** fine- to medium-grained dolerite with disseminated Fe-Ti oxides; minor sulfides and accessory apatite  
*Edgp* **Parker Range Member:** fine- to medium-grained dolerite, commonly with pink granophyre zones

MESOPROTEROZOIC

Salvation Group



*Pv/b* **BRASSEY RANGE FORMATION:** quartz sandstone and subordinate siltstone, predominantly cross-bedded, in places pebbly; fluvial to coastal deposits  
*Pv/c* **COONABILDIE FORMATION:** siltstone and fine-grained lithic sandstone, commonly rippled; coastal and fluvial deposits  
*Pv/c/a* Sandstone and subordinate siltstone, trough cross-bedded; locally pebbly  
*Pv/c/s* Siltstone and subordinate sandstone, rippled to laminated; local shale and mudstone  
*Pv/c/c* Chert, massive to laminated; basal unit

Scorpion Group



*EMOa* Quartz sandstone and subordinate siltstone, rippled and cross-bedded; coastal deposit  
*EMOo* Pebble and cobble conglomerate, subordinate pebbly sandstone  
*EMOc* Interbedded stromatolitic dolomite, siltstone, and sandstone, common contorted bedding; coastal evaporitic deposits (drillhole only)

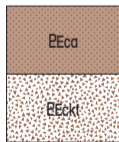
Stanley Fold Belt (?1760 Ma)

PROTEROZOIC

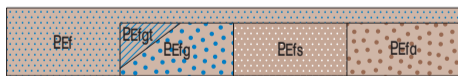
PALAEOPROTEROZOIC

Earaheedy Group

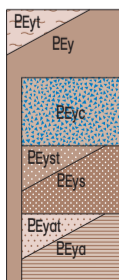
Tooloo Subgroup



*PEca* **CHIALL FORMATION**  
 Sandstone, variable texture and composition, stratigraphic position uncertain  
*PEckf* **Karri Karri Member:** shale, generally finely laminated, siltstone, and minor sandstone, deformed and metamorphosed in the Stanley Fold Belt

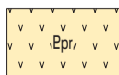


*PEF* **FRERE FORMATION:** granular and laminar iron-formation, granular siliceous iron-formation, siltstone, shale, and chert; marine deposits  
*PEFg* Granular iron-formation and granular siliceous iron-formation, in places peloidal; minor siltstone, shale, and chert  
*PEFgt* Laminar granular iron-formation; deformed and metamorphosed in the Stanley Fold Belt  
*PEFs* Siltstone and shale; minor iron-formation  
*PEFa* Sandstone, locally with intercalated granular iron-formation; sandstone to iron-formation transition



*PEyt* Metasiltstone, metasandstone, metaconglomerate, quartz-sericite schist, and carbonate-quartz-sericite schist; deformed in the Stanley Fold Belt  
*PEy* **YELMA FORMATION:** sandstone, siltstone, and phyllitic shale; shallow marine to fluvial deposits  
*PEyc* Chert derived from stromatolitic dolomite  
*PEyst* Siltstone and shale, deformed and metamorphosed in the Stanley Fold Belt  
*PEys* Siltstone and shale with minor sandstone  
*PEyat* Sandstone, deformed and metamorphosed in the Stanley Fold Belt  
*PEya* Sandstone, coarse-grained and locally pebbly

c. 2000 Ma<sup>1</sup>



Rhyodacitic porphyry

EARAHEEDY BASIN

IMBIN INLEER