



Colluvial units

C Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits
Cf Ferruginous rubble and scree

Sheetwash units

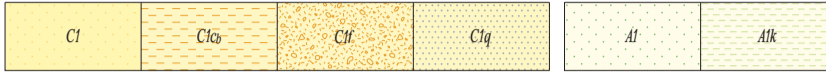
W Sandy and clayey distal sheetwash and slope deposits, no clearly defined drainage
Wt Silt and sand; surface is characterized by shallow depressions aligned perpendicular to the slope; supports banded mosaic vegetation (tiger bush)
Wf Low gradient deposits of ferruginous sand, silt, and gravel
Wk Distal sheetwash with calcrete cutans and carbonate cement

Alluvial units

Af Unconsolidated, fine-grained deposits on floodplains
Aa Fan-shaped deposits of unconsolidated, fine-grained sand to boulders in fine-grained matrix on steep hill slopes

Sandplain unit

S Quartz sand of mixed origin; includes residual and eolian sands

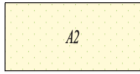


Colluvial units, third generation

C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits
C1cb Swelling clay (gilgai) and rock fragments, mostly developed over dolerite
C1f Unconsolidated ferruginous rubble and scree
C1q Quartz fragments in an unconsolidated silt and sand matrix, derived from quartz veins and quartzose rocks

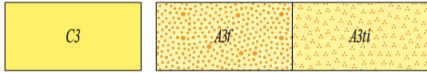
Alluvial units, third generation

Af Silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
A1k Carbonate-rich silt, sand, and gravel in active drainage channels and floodplains



Alluvial unit, second generation

A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage



Colluvial unit, first generation

C3 Quartz and rock fragments in a weakly cemented and compacted silt and sand; deeply dissected valley-fill deposits

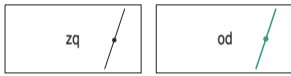
Alluvial units, first generation

A3f Weakly cemented silt, sand, and minor gravel in older floodplains adjacent to older drainage
A3ti Sand and gravel with ferruginous cement; deeply dissected by present-day drainage



Residual or relic units

Rf Ferruginous deposits, including lateritic, ferruginous, and mangiferous duricrust
Rk Calcrete, developed in and adjacent to alluvial channels; carbonate and vuggy opaline silica; dissected by major present-day drainage
Rl Saprolite and saprock of uncertain protolith



zq Quartz vein or pod; massive, crystalline, or brecciated; age uncertain
od Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain

Mulka Tectonic Event (c. 570 Ma)
Edmundian Orogeny (1030–955 Ma¹)
Mutherbukin Tectonic Event (1280–1250 Ma)

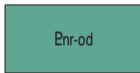
c. 1465 Ma

c. 1460 Ma

<1620 Ma

1811–1787 Ma

1983–1811 Ma



NARIMBUNNA DOLERITE: dolerite and gabbro sills intruded into **Edmund Group**



ULLAWARRA FORMATION: siltstone; subordinate fine-grained sandstone, dolostone, and chert; locally intruded by numerous dolerite sills



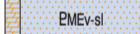
Siltstone and thin- to thick-bedded sandstone



Sandstone and siltstone



DEVIL CREEK FORMATION: laminated dolostone and dolomitic siltstone; local thick-bedded dolerite



Siltstone, dolomitic siltstone, and dolostone



DISCOVERY FORMATION: massive or laminated chert, silicified mudstone, and siltstone; local silicified sandstone and conglomerate



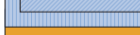
Siltstone



KIANGI CREEK FORMATION: siltstone, mudstone, and thin to very thick bedded quartz sandstone; minor dolostone and conglomerate



Chert and siltstone



Siltstone; minor fine-grained sandstone



Dolostone, siltstone, and sandstone



Sandstone and siltstone



Medium to very thick bedded quartz sandstone and siltstone



Conglomerate and sandstone



IRREGULARLY FORMATION: stromatolitic and non-stromatolitic dolostone, dolomitic siltstone, quartz sandstone, and conglomerate



Siltstone, sandstone, and dolostone



Siltstone and thin to very thick bedded sandstone; minor dolostone



Sandstone and siltstone; minor dolostone



Sandstone, conglomerate, siltstone, and dolostone



YILGATHERRA FORMATION: sandstone; subordinate siltstone, conglomerate, and dolostone



Thick-bedded conglomerate and sandstone



MOUNT AUGUSTUS SANDSTONE
 Sandstone; minor pebbly sandstone, siltstone, and conglomerate



Mangaroon Orogeny (1680–1620 Ma²)
Capricorn Orogeny (1820–1770 Ma³)
 Equigranular to sparsely porphyritic biotite tonalite and granodiorite; medium grained; massive to weakly foliated



Metadolerite; massive to schistose



Glenburgh Orogeny (2005–1950 Ma)
 Siltstone; minor fine-grained sandstone; metamorphosed



Quartz arenite; minor interleaved quartz wacke and siltstone; metamorphosed



LABOUCHERE FORMATION: quartz wacke and siltstone with local quartz-pebble conglomerate beds; metamorphosed; includes zones of quartz schist, quartz-muscovite schist, and minor biotite-muscovite schist, locally with choritoid, stauriolite, and/or andalusite

Bangemall Supergroup

Edmund Group

Moararrie Supersuite

Padbury Group

EDMUND BASIN

GASCOYNE PROVINCE

PADBURY BASIN