_		
		Colluvial units C Quartz and rock fragments in a silt and sand matrix; includes ferruginous deposits Cf Ferruginous rubble and scree
	Unassigned	Sheetwash units W Sandy and clayey distal sheetwash and slope deposits; no clearly defined drainage Wt Silt and sand; surface characterized by shallow depressions aligned perpendicular to 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
		A Clay, silt, sand, and gravel in channels and on floodplains At Unconsolidated, fine-grained deposits in alluvial drainage depressions, claypans, ephemeral lakes, and swamps; low-lying areas with internal drainage; typically thickly vegetated Av Fan-shaped deposits of unconsolidated, fine-grained sand to boulders in fine-grained matrix on steep hill slopes
	≻	C1 Ctr. Ctr. A1
	OUATERNARY	Colluvial units, third generation C1 Quartz and rock fragments in an unconsolidated silt and sand matrix; includes ferruginous deposits Cff Unconsolidated ferruginous rubble and scree
	ON	Citiss Sandstone fragments in a silt and sand matrix; derived from sandstone Alluvial unit, third generation All All Silt, sand, and gravel in active drainage channels and floodplains; includes ferruginous deposits
CENOZOIC		C2 C2f 42
CEI		Colluvial units, second generation C2 Quartz and rock fragments in a partly consolidated silt and sand matrix
		C2f Partly consolidated ferruginous rubble and scree Alluvial unit, second generation A2 Partly consolidated silt, sand, and gravel; partly dissected by present-day drainage
		C3 C3f A3 A3f A3i
		Colluvial units, first generation C3 Ouartz and rock fragments in a weakly cemented and compacted silt and sand matrix; deeply dissected valley-fill deposits C3f Ferruginous rubble and scree in a weakly cemented and compacted silt and sand matrix; partly dissected
		Alluvial units, first generation A3 Weakly cemented and compacted silt, sand, and gravel: deeply dissected by present-day drainage A3 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 Rf Rk Rt Rz Rt Rz
		Residual or relict units
		Rk Calcrete, developed in, and adjacent to alluvial channels; carbonate and vuggy opaline silica; dissected by major present-day drainage RI Saprolite and saprock of uncertain protolith Rz Silcrete and brecciated siliceous caprock
l	_	Rife Hematite-limonite gossan
		zq od Quartz vein or pod; massive, crystalline, or brecciated; age uncertain
DIDIC	_	Dolerite dykes, sills, or plugs; fine- to medium-grained dolerite; age uncertain Mulka Tectonic Event (c. 570 Ma)
NEOPROTEROZOIC	c. 755 Ma ¹	EMW-od / Mundine Well Dolerite Suite: dolerite dykes, sills, and small intrusions with locally abundant xenoliths and potassic alteration of wallrocks; includes minor quartz diorite, syenite, tonalite, and biotite monzogranite
NEOI	_	Edmundian Orogeny (1026–954 Ma ²)
	c. 1070 Ma	PWKku-od / KULKATHARRA DOLERITE: dolerite and gabbro sills intruded into Edmund Group and Collier Group
		PMCI-si ILGARARI FORMATION: siltstone, mudstone, and fine-grained sandstone
		EMCc-st CALYIE FORMATION: quartz sandstone, siltstone, mudstone, conglomerate, and dolostone
	rgroup	EMCc-sf Siltstone, mudstone, and thin- to thick-bedded quartz sandstone EMCc-st BACKDOOR FORMATION: siltstone, mudstone, and thin- to thick-bedded sandstone; minor chert and dolostone
	Bangemall Supergroup Collier Group	EMCD-si BACKDOOR FORMATION: siltstone, mudstone, and thin- to thick-bedded sandstone; minor chert and dolostone EMCDj-st Jeeaila Sandstone Member: thin to very thick bedded sandstone and minor siltstone
ROZOIC	Bange	PMCb-ss / Thin- to thick-bedded sandstone and siltstone
MESOPROTEROZOIC		PMCb-st / Thin- to thick-bedded sandstone and minor siltstone
MES		Picce-ka Thin- to thick-bedded dololutite, dolomitic siltstone, dolarenite, and siltstone
		Mutherbukin Tectonic Event (1385–1771 Ma)
	с. 1465 Ма	Pnr-od ARIMBUNNA DOLERITE: dolerite and gabbro sills intruded into Edmund Group
		EME: et COODARDOO FORMATION: thin to very thick bedded lithic quartz sandstone; minor siltstone and mudstone
	c. 1460 Ma	EME-si ULLAWARRA FORMATION: siltstone; subordinate fine-grained sandstone, dolostone, and chert; intruded by numerous dolerite sills Sandstone, conglomerate, siltstone, and dolostone Sandstone, conglomerate, siltstone, and dolostone
		EME:sf Siltstone and thin- to thick-bedded sandstone
		PMEV.kd DEVIL CREEK FORMATION: laminated dolostone and dolomitic siltstone; local thick-bedded dolorudite
		PMEV-st Siltstone, dolomitic siltstone, and dolostone
		PMEd-cl DISCOVERY FORMATION : massive or laminated chert, silicified mudstone, and siltstone; local silicified sandstone and conglomerate
		PMEd-sl Siltstone
OZOIC	Bangemall Supergroup Edmund Group	EMEk-sf KIANGI CREEK FORMATION: siltstone, mudstone, and thin to very thick bedded quartz sandstone; minor dolostone and conglomerate EMEk-st Siltstone; minor fine-grained sandstone
PALEOPROTEROZOIC-ME SOPROTEROZOIC	ingemall Supergr	PMEk-kd Dolostone, siltstone, and sandstone
IC-MESO	Ĕ	PMEk-ct Chert and siltstone
TEROZO		PMEk-ss Sandstone and siltstone
LEOPRO		EMEk-st Medium to very thick bedded quartz sandstone and siltstone
PA		PMEp-kd CHEYNE SPRINGS FORMATION: undivided; dololutite, dolarenite, dolorudite, mudstone, siltstone, and minor sandstone
		PMEb-si BLUE BILLY FORMATION: siltstone and mudstone; minor thin- to thick-bedded sandstone; locally sulfidic
		EMEEkd IRREGULLY FORMATION: stromatolitic and non-stromatolitic dolostone, dolomitic siltstone, quartz sandstone, and conglomerate EMEEkt Sandstone, conglomerate, siltstone, and dolostone
		PMEI-sl Thick-bedded quartz sandstone; minor siltstone
	<1620 Ma	Mangaroon Orogeny (1677–1619 Ma ³)
PALE OPROTEROZOIC	iroup	Capricorn Orogeny (1817–1772 Ma ⁴)
LEOPRO	c. 1806 Ma 001	EWYG-S ASHBURTON FORMATION: siltstone, thin to very thick bedded lithic quartz sandstone, pebble to cobble conglomerate, and felsic volcanic rock; lower greenschist facies (section only
PA		

PHANEROZOIC

ASHBURTON BASIN

WARAKURNA LARGE IGNEOUS PROVINCE

COLLIER BASIN