		-	Lacustrine unit Lac ustrine unit Lpc Sandplain units S Sgpg	Subscription Tr Tm Lacustrine deposits; clay, silt, and silty sand; playa (saline) and claypan (freshwater) deposits Sandplain deposits; sand of mixed residual, sheetwash, and eolian origin Mixed eolian and eluvial sand; red-brown quartz sand in sheets; overlying and derived from granitic rock
			Coastal (tide-dom Tr Tm C1	
			Colluvial unit C1 Low-gradient slop W1	Colluvial sand, silt, and gravel in outwash fans; scree and talus; proximal mass-wasting deposits; unconsolidated
	NARY		W1gpg Alluvial units A1c A1e A1r	Sand, said, and peoples in diskin durwain hals, no defined analoge Quartzofeldspathic sand and quartz pebbles in sheetwash fans; derived from mass-wasting of granitic rock Sand, silt, and gravel in active drainage channels; includes clay, silt, and sand in poorly defined drainage courses on floodplains Alluvial sand and gravel in levees and sandbanks in deltas Floodplain deposits; sand, silt, clay, and gravel adjacent to main drainage channels
	QUATERNARY		A1 _{frCb} A1 _i A1 _l Coastal (wave-do	Sand, silt, and clay on floodplains, with gilgai surface in areas of expansive clay Mixed floodplain deposits; sand, silt, and clay adjacent to main drainage channels; numerous small claypans Alluvial sand and gravel in levees and in sandbanks adjacent to main drainage channels minated) unit
CENDZOIC	20		B1b Rigpg	Coastal dunes and beach deposits; shelly sand containing Anadara granosa; includes backshore deposits
	CENOZY		Residual unit R1gpg	Residual quartzofeldspathic sand, with quartz and rock fragments; overlying and derived from granitic rock
			C2 Colluvial units	C24 C2gpg A2 A2dk A2k B25kK
			C2 C2f C2gpg Alluvial units	Partly consolidated colluvial sand, silt, and gravel in proximal outwash fans; scree and talus; dissected by present-day drainage Ferruginous colluvium; consolidated sand, silt, clay, and rock fragments in proximal outwash fans and scree; dissected by present-day drainage Variably consolidated quartzofeldspathic sand, silt, clay, and rock fragments derived from granitic rock; dissected by present-day drainage
			A2 A2dk A2k Coastal (wave-do	Consolidated alluvial sand, silt, and gravel; dissected by present-day drainage Consolidated alluvial gravel, sand, and silt; local carbonate cement; dissected by present-day drainage Alluvial or lacustrine calcrete; massive, nodular, and cavernous limestone, variably silicified; dissected by present-day drainage minated) unit
			B25kk R2gpg	Carbonate-cemented coastal dunes; shelly calcarenite, locally quartzose; local carbonate-cemented beach conglomerate; dissected by present-day drainage, and eroded by wave action
			Residual or relict R2gpg R2k	units Variably consoloidated eluvial and colluvial sand, gravel, and silt overlying, and derived from, granitic rock; dissected by present-day drainage Residual calcrete; massive, nodular, and cavernous limestone; variably silicified; dissected by present-day drainage
			<i>R3f</i> Residual or relict	
	gene - Gene		R3f	Ferruginous duricrust and ferruginous colluvium; locally includes ferruginous alluvium; consolidated to partly consolidated; related to Hamersley Surface; dissected by present-day drainage ROBE PISOLITE: pisolitic limonite; minor ferruginous siliciclastic material, goethite, and hematite deposits; developed along palaeodrainage lines; dissected by present-day drainage
PALEOGENE		_	MZ-s	Weathered sedimentary rock; palynomorphs present (subsurface only)
9	8		Kca-st	CALLAWA FORMATION: very fine to coarse-grained sandstone; minor conglomerate
JURASSIC-CRETACEOUS			Jja-sl	JARLEMAI SILTSTONE: mudstone and siltstone; minor sandstone (subsurface only)
			Jwa-st	WALLAL SANDSTONE: sandstone; minor siltstone and conglomerate (subsurface only)
			ERH-od	EMW-od // Round Hummock Dolerite Suite: dolerite dyke, fine to medium grained
с. 755 Ма ¹ с. 1803–1703 Ма		I	EMW-od EBG-gnph	Mundine Well Dolerite Suite: dolerite dyke with locally abundant granitic xenoliths and potassic alteration of wallrock; local syenite Bridget Suite Hornblende-feldspar-blottle porphyry dykes; trachyandesite and lamprophyre
		Pe	AzqP /	
		Unassigned	AzqP AoP Axo-uP AaxP	Quartz vein; various ages Dolerite or gabbro dyke of uncertain age; interpreted from aeromagnetic data where dashed Mafic to ultramafic dyke; fine grained Pyroxenite dyke; fine to medium grained
			AFOe-scp	PEAR CREEK FORMATION Polymictic conglomerate; matrix-supported clasts of Fortescue Group basalt and older chert, felsic volcanic rock, and granitic rock
С.	2741 Ma²		AFOk-bb	AFO-o Fine- to coarse-grained dolerite and gabbro; in dykes; includes Black Range Dolerite Suite as well as younger dykes KYLENA FORMATION
		int Bruce Supergroup Fortescue Group	AFOk-bb AFOk-bbz AFOh-sg	Massive and vesicular tholeilitic basalt to basaltic andesite; thick flows Brecciated pillow basalt with fine-grained hyaloclastitic to sandy matrix
C.	2764–2756 Ma	Mount Bruce Fortescue	AFOh-sg AFOhb-frp	HARDEY FORMATION Pebble to cobble conglomerate interbedded with medium- to coarse-grained sandstone, wacke, and siltstone Bamboo Creek Member: porphyritic dacite, rhyodacite, and rhyolite; coarse- to fine-grained alkali feldspar and quartz phenocrysts; locally as dykes
c.	2775 Ma³		AFOr-b	MOUNT ROE BASALT: basaltic volcanic rock; local volcaniclastic and siliciclastic rocks Black Range Dolerite Suite: dolerite dyke; local gabbro; metamorphosed
			AFOb-sr	BELLARY FORMATION Coarse-grained to pebbly sandstone; minor pebble conglomerate; thickly bedded

DATA DIRECTORY

Data Source	Data Currency	Agency
GSWA	2006	Dept of Industry and Resources
WAROX	FEB 2006	Dept of Industry and Resources
MINEDEX *	FEB 2006	Dept of Industry and Resources
WAMIN	FEB 2006	Dept of Industry and Resources
Remote sensing services	MAY 2006	Dept of Land Information
GSWA	MAY 2006	Dept of Industry and Resources
GESMAR	JUN 2004	Dept of Land Information
GEONOMA	2005	Dept of Land Information
DLI and GSWA field survey	2001-2003	Dept of Land Information
Water Information System (WIN)	2005	Dept of Water
Nautical charts	1998	Dept of Planning and Infrastructure
	GSWA WAROX MINEDEX * WAMIN Remote sensing services GSWA GESMAR GEONOMA DLI and GSWA field survey Water Information System (WIN)	GSWA 2006 WAROX FEB 2006 MINEDEX * FEB 2006 WAMIN FEB 2006 Remote sensing services MAY 2006 GSWA MAY 2006 GESMAR JUN 2004 GEONOMA 2005 DLI and GSWA field survey 2001–2003 Water Information System (WIN) 2005

* GSWA and DolR databases can be viewed online (www.doir.wa.gov.au/aboutus/geoview_launch.asp) or can be downloaded from the GSWA Data and Software Centre (www.doir.wa.gov.au/GSWA/downloadcentre)

MINERALIZATION STYLES*

- Pegmatite
 Orthomagmatic mafic and ultramafic
 Vein and hydrothermal
 Stratabound volcanic and sedimentary
 Stratabound sedimentary and sedimentary banded iron-formation
- C Regolith hosted

 \bigtriangledown Undivided

MINERAL OCCURRENCES

\bigcirc	Precious mineral
\bigcirc	Precious metal
\bigcirc	Steel industry metal
	Speciality metal
	Base metal
\bigcirc	Iron
\bigcirc	Industrial mineral
\bigcirc	Construction material

MINERAL AND ROCK COMMODITY GROUPS

	MINERAL AND ROCK COMMODITIES		
Asbestos, chrysotile (serpentine)	Asbs	Lithium	
Barite	Brt	Manganese	
Beryl	Brl	Mica	
Emerald	Brle	Nickel	
Chert	Chrt	Platinum Group Elements	
Chromium	Cr	Silver	
Clay	Су	Tantalum	
Copper	Cu	Tiger eye	
Feldspar	Fel	Tin	
Gold	Au	Tungsten	
Iron	Fe	Zinc	
Lead	Pb		

Mineral occurrences and numbers are from the GSWA WAMIN database. * Larger symbols represent mines or deposits also in the DoIR MINEDEX database

