



Manyalluluk Geology

Quaternary Sediments
channel and floodplain, gravel, sand, silt, clay, minor ephemeral lake deposits

Quaternary - Tertiary Laterite
Nodular, concretionary, plastic and vemicular mottled laterite; ferruginous laterite and ferricrete; in situ and reworked remnants of standard laterite profile

undivided Cretaceous
white, yellow-brown, red-brown and black quartz sandstone and ferruginous sandstone, silty sandstone, siltstone, claystone, minor pebble conglomerate

West Branch Volcanics
Strongly altered fine, rarely porphyritic, massive to vesicular and amygdaloidal, commonly brecciated lavas of mainly mafic composition; interbeds of fine to coarse and pebbly, quartz-rich to ferruginous and lithic sandstone

Gundi Sandstone
Sat: pink to red medium to coarse-grained, medium bedded, lithic and feldspathic; localised cgl: pebble to boulder rounded clasts of lithic and feldspathic sat and porphyritic rhyolite, minor mudstone, ferruginous mafic igneous rocks and porphyritic rhy

Diamond Creek Volcanics
Vesicular and amygdaloidal, strongly altered mafic lavas; minor tuff and volcanoclastic sandstone

McCaw Formation
Sandstone: fine-grained, medium to thick bedded, massive, low angle trough cross bedded and planar laminations, lithic and feldspathic minor glauconitic horizons, mudstone, dolomitic mudstone

Shadforth Sandstone
Medium to coarse grained quartz sandstone, some fine, very coarse grained and granular layers

Cottee Formation
Hemispherical stromatolite bioherms; interbedded mudstone; fine-grained sandstone and dolostone

McKay Sandstone
Sandstone: white, red/brown to purple, fine to medium-grained, thin to medium bedded, trough cross bedded, quartzose, lithic and/or ferruginous

Marigowa Sandstone
Sandstone: white/gray, fine-grained to granular, thick to very thick bedded, dominantly trough cross-bedded, planar cross-bedded, quartz arenite

Gumarrirbang Sandstone
Sandstone: white/gray, fine to very coarse-grained, medium to thick bedded, dominantly planar laminated, trough cross-bedded, quartz arenite

Mamadawerro Sandstone
Sandstone: white/gray, fine to coarse-grained, medium to thick bedded, planar cross-bedded, trough cross-bedded and minor planar cross bedded, quartz arenite

Grace Creek Granite
Porphyritic and xenocrystic, grey/pink fine granite; local microgranite; minor fine hornblende-biotite granite

Plum Tree Creek Volcanics
Massive to layered, red to reddish-brown, xenolithic, porphyritic ignimbrite; massive to amygdaloidal basalt; red-pink-grey porphyritic glassy rhyolite; minor tuff and cherty and sandy sediments

Hindrance Creek Sandstone
Brown, pink and grey, medium to coarse-grained, volcanoclastic to feldspathic sandstone with scattered pebbles; metagranite near Grace Creek Granite

Maud Dolerite
Medium-grained, grey-green quartz dolerite, metadolerite

Tollis Formation
Greywacke, pink tuffaceous greywacke, siltstone, phyllite, pale green argillite, cherty tuff; minor shale, volcanoclastic pebble conglomerate, crystal

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kilometres

Cameco Australia

Manyalluluk Project

EL 9452

Tenement Geology

1:250K NTGS Mapping

Katherine Sheet SD 53-09

Compiled by: GEO7/6/2005

Scale: 1:150000

Coord. System: AMG Zone 53 (AGD 66)

Figure