REFERENCE

CAINOZOIC

QUATERNARY

HOLOCENE – PLEISTOCENE

Qs | Qe | Qel | Ql | Qa | Qc | Qr

Qs Beaches and mobile coastal dunes – quartzose calcarenite
Qe Eolian and residual sand – red-brown and yellow quartz sand
Qel Mixed dune and playa terrain – clay, silt, sand and gravel
Ql Larger playas – poorly sorted clay, silt, sand and gravel
Qa Alluvium – clay, silt, sand and gravel, in places calcreted
Qc Colluvium – clay, silt, sand and gravel; formed by sheet flood and deflation
Qr Residual soil derived from Northampton Block – clay, silt and sand

PLEISTOCENE – EARLY HOLOCENE

Qt — **TAMALA LIMESTONE** : calcarenite with calcrete soils; eolian
Qtl — Lithified Tamala Limestone

?LATE PLIOCENE – PLEISTOCENE

Cze | Cza | Czk

Cze Older eolian sand – reddish quartz sand with ubiquitous soil structures
Cza Older, high-level alluvium – poorly sorted clay, silt, sand and gravel
Czk Calcrete – lumpy, nodular and massive authigenic limestone; duricrust and valleyfill

TERTIARY

PLIOCENE – MIOCENE

Czl — Laterite – pisolitic vuggy and massive ironstone, minor ferruginized sandstone

MIOCENE

Tp — **PINDILYA FORMATION** : poorly sorted sandstone, conglomerate; ? fluviatile. Includes minor authigenic silcrete

MESOZOIC

CRETACEOUS

CAMPANIAN – SANTONIAN

Kt — Kt **TOOLONGA CALCILUTITE** : chalky calcilutite to calcisiltite; shallow marine

TURONIAN – CENOMANIAN

Ka — Ka **ALINGA FORMATION** : glauconitic clayey siltstone to greensand; shallow marine

Ku — Ku Toolonga Calcilutite and Alinga Formation, undifferentiated

ALBIAN

Kw — Kw **WINDALIA RADIOLARITE** : radiolarian siltstone; commonly porcellanized; marine

Kl — Kb **BIRDRONG SANDSTONE** : well-sorted, friable sandstone; commonly glauconitic; shallow marine

APTIAN

Kb

Kl Windalia Radiolarite and Birdrong Sandstone, undifferentiated

JURASSIC

Jc — **CHAPMAN GROUP** : poorly sorted sandstone to conglomerate; ?fluviatile;identification uncertain

CRETACEOUS AND LOWER TRIASSIC

Ms — Sequence of Birdrong Sandstone, Kockatea Shale and Wittecarra Sandstone; south of Red Bluff, cliff exposure

PALAEOZOIC

PERMIAN

ARTINSKIAN

Pg — **HIGH CLIFF SANDSTONE** : coarse-grained quartzofeldspathic sandstone; ? marine

SAKMARIAN

Ph — **HOLMWOOD SHALE** : chalky, unfossiliferous siltstone; marine

Pn — **NANGETTY FORMATION** : tillitic clayey siltstone and sandstone; glacigene

SILURIAN

St — **TUMBLAGOODA SANDSTONE** : red-bed sequence; sandstone, siltstone, minor conglomerate; fluviatile,and marginal marine

CAMBRIAN

MARGINAL TO YILGARN BLOCK

NORTHAMPTON BLOCK

d — Dolerite or gabbro dyke

MIDDLE–LATE PROTEROZOIC

Pd — Meta-dolerite sill

Badgeradda Group

PAw — **WOODRARRUNG SANDSTONE** : medium to coarse-grained sandstone

PAb — **BILILLY FORMATION** : fine-grained sandstone and siltstone

Pmg | Pmn | Pmq | Pmp — 1040 ± 50 my

Pmg Garnet (- sillimanite) granulite, local quartzite, gneiss, pegmatite and graphitic schist
Pmn Quartz-feldspar gneiss, local quartzite, granulite, amphibolite and schist
Pmq Quartzite with associated quartz-feldspar gneiss
Pmp Granitic gneiss with megacrysts

Pn | P(q) | P(s) | P(v)

Pn **NILLING FORMATION** : cleaved quartzose and feldspathic sandstone
P(q) Quartz sandstone, locally quartzitic
P(s) Siltstone (locally phyllite) with minor quartzose and feldspathic sandstone
P(v) Silicified ? basalt

YILGARN BLOCK

Ad — Dolerite dyke, locally metamorphosed to amphibolite

Agm — Medium-grained, foliated granite

An | Aa | Au

An Quartz-feldspar-mica gneiss
Aa Amphibolite
Au Ultramafic rock

ARCHAEAN (ca 3000 my)