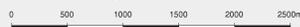
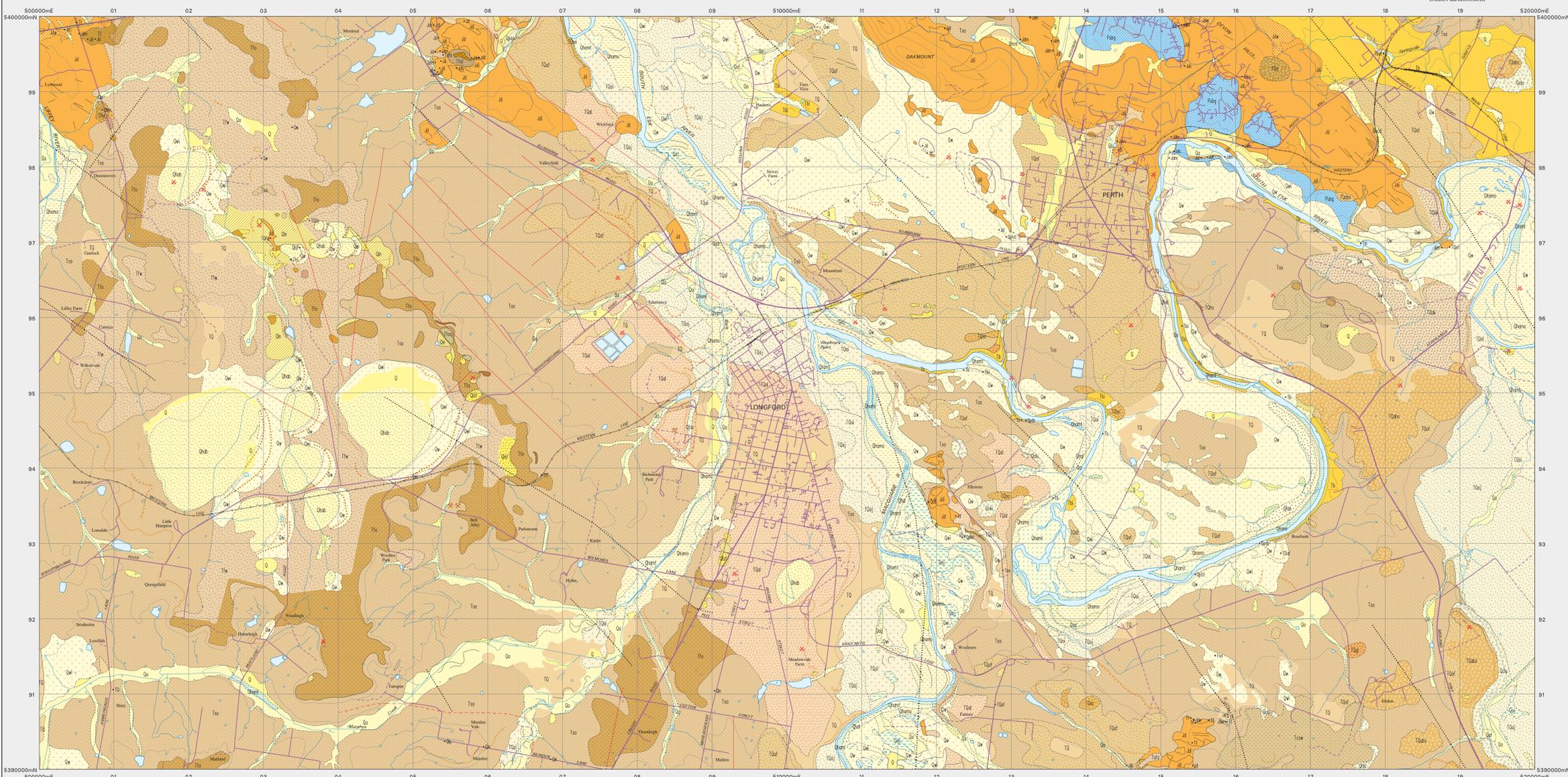


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Scale: 1:25 000



MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
LONGFORD, SHEET 5039



UNIT	DESCRIPTION
Qhm	Mine tailings and man disturbed ground (Qhm), selected other man-made deposits including some levee banks interpreted from 1960s aerial photography (Qhm).
Qw	Aeolian deposits generally of fine-grained sand and clayey sand, includes some photo-interpreted deposits with prominent dune morphology (Qw). Photo-interpreted aeolian deposits predominantly of sheet or low hummock form (Qw).
Qhs	Deposits of clay, silt and sand in small areas of internal drainage generally swales in dune fields (Qhs).
Qhr	Undifferentiated (photo-interpreted) river levee or dune deposits exhibiting ridge morphology or a much degraded ridge form at places grading into dune or sheet aeolian deposits (Qhr).
Qhb	Deposits of lunette lagoons and similar features (Qhb).
Qhnt	Alluvial gravel, sand and clay deposits mostly of minor stream or undifferentiated parts of the alluvium of major streams (Qh), alluvial fan deposits, generally of fine-grained gravel, sand and silt (Qh).
Qhnm	Alluvium of low flats adjacent to current stream channels and subject to frequent minor flooding (part of Canola Surface) (Qhnm).
Qhnp	Alluvium of floodplain terraces adjacent to current stream channels including levee? deposits in some areas (part of Canola Surface) (Qhnp).
Qhnc	Alluvium related to former channel locations and commonly exhibiting multiple levee? ridges and channel terraces that have resulted from progressive planial migration (Qhnc).
Qhnd	Riverine flood basin deposits generally of clay and silt over other alluvium (Qhnd).
Qha	Predominantly inferred abandoned river channel deposits and some abandoned? flood chutes (Qha).
Qhs	Inferred sand and silt deposits of natural levees or levee-like features (Qhs).
Qhp	Older alluvium of minor stream terraces (Qhp).
Qh	Log deposits of ferruginous silts and ferricrete fragments (Qh).
Qhs	Log deposits of ferruginous silts and ferricrete fragments and siliceous granules or pebbles (Qhs).
Qhc	Caliche of clayey gravel derived from dolerite (Qhc).
Qd	Undifferentiated patchy deposits generally with some siliceous gravel and derived from terraced gravel deposits by inferred down slope movement or other means of dispersal (Qd).
Qdb	Basalt talus (Qdb), talus dominantly of dolerite boulders and in places subordinate Permian/Superior rocks (Qdb).

UNIT	DESCRIPTION
TQai	Erosional/depositional terrace cut in Tertiary strata and generally exhibiting only subdued remnants of fluvial morphology, alluvial gravel and alluvial sand (generally reworked B ₁).
TQaj	Similar to TQai but generally lacking fluvial morphology and locally higher, may include undifferentiated alluvium of minor streams and swamps (generally derived from adjacent lateral slopes (generally mostly part of Brumby Terrace) (TQaj).
TQaf	Undifferentiated siliceous pebble gravels, cemented gravel and sand with little or no dolerite (part of Strickland soil association) (TQaf).
TQal	Late Cenozoic alluvial terrace deposits approximately 10 to 15m above local base level, of loose to poorly consolidated or cemented, gravel, sand, silt and clay, clasts predominantly pebbles to granite size and of siliceous composition with ferruginous clasts derived from mid-Tertiary laterite ferricrete (Strickland Terrace in part) (TQal).
TQak	Late Cenozoic alluvial terrace deposits approximately 10 to 10m above local base level, similar to unit TQal, but clasts predominantly of siliceous composition (TQak).
TQas	Late Cenozoic alluvial terrace deposits ~20m above local base level, similar to unit TQak (TQas).
TQac	Late Cenozoic ferruginous puddingstone conglomerate generally with some small quartz pebbles or granules (TQac).
TQag	Quartz gravel with red to pink coloration caused by surface ferruginous films or ferruginous quartz overgrowths (TQag).
TQau	Undifferentiated clayey silt facies of late Cenozoic terrace deposits and erosional terraces cut in Palaeogene beds (TQau).
TQib	Ferruginous cemented sandstone (TQib).
TQis	Undifferentiated very poorly consolidated sandstone (TQis).
TQia	Ferruginous drab khaki coloured cemented siltstone or sandstone (TQia).
Tf	Ferricrete (Tf).
Tfha	Laterite developed from or on Jurassic dolerite (Tfha).
Tfca	Miocene? ferruginous laterite profile commonly of barngundy-yellow-ochre coloured ferricrete masses and bright orange-tan clay with ferruginous silts and younger (possibly) log deposits of ferruginous silts, with lower pallid zone (part of Woodstock Soil Association) (Tfca).
Tfca?	Miocene? Quartz granite bearing ferricrete developed on Tertiary beds (Tfca?).
Tfca	Lower part of ferruginous or aluminous laterite profile beneath upper cemented zone (Tfca).
Tfca	Laterite profile pallid zone, generally consisting of white clay with variable development of purple, red or brown ferruginous nodules or masses and occasionally laminitic layers (Tfca).
Tfca	In situ laterite profile, log and dispersed ferruginous ferricrete fragments and silts, locally may include pallid part of profile or lower horizon; more broadly interpreted from unit Tfca, distribution indicated by soil maps (Woodstock soil association) (Tfca).
Tfca	Bedded laminitic ferricrete probably laminitic replacement of siltstone, generally brown in colour and found below the pallid/ferruginous zone boundary of laterite intervals (Tfca).

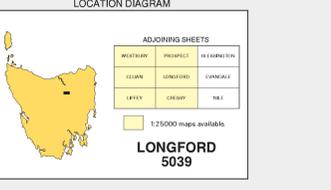
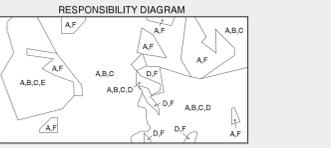
UNIT	DESCRIPTION
Tc	Undifferentiated conglomerate, gravel and grit (Tc).
Tcaw	Sub-laterite, poorly consolidated to ferruginously cemented quartz-rich cobble, pebble, granule and sand deposits of alluvial and possible log origin, and inferred corrieites (Tcaw).
Tb	Basalt (Tb), agglomerate and tuff (Tb) indicated.
Tba	Poorly consolidated clay, silt and clayey silt sand with rare gravel and lignite, some iron oxide-cemented layers and concretions; some leaf fossils (Tba).
Tba?	Selected sandstone units (where differentiated) within intervals dominantly of claystone and siltstone (Tba?).
Tba	Basalt profile developed on pre-Tertiary rocks and correlated with unit overran by Palaeogene rocks in other areas (Tba).
Psb	Infossiliferous pebbly siltstone, siltstone and sandstone (Boyan Gap Group) (Psb).

UNIT	DESCRIPTION
Tb	Basalt (Tb), inferred basalt beneath soil or Cenozoic deposits (Tb).
Id	Dolerite (Id), dolerite inferred beneath soil or Cenozoic deposits (Id). Dolerite of grain size 0.7-1.5mm (IdF), 1.5-3mm (IdM), 3-8mm (IdS) and >8mm (IdV) indicated.
Idw	Predominantly very-to extremely-weathered dolerite (Idw).

SYMBOL	DESCRIPTION
—	Geological boundary - position accurate or approximate.
- - -	Geological boundary - inferred.
—	Intrusive boundary - position accurate or approximate.
.....	Dune crest.
.....	Slope break.
.....	Scarp.
.....	Lithological trend line, including bedding trace interpreted from aerial photographs.
.....	Photo lineament.
.....	Magnetic gradient or lineament (direction towards lower values indicated).
.....	Lineament visible in airborne magnetic data.
.....	Fault - unspecified type, concealed.
.....	Fault - concealed, inferred from airborne magnetic data.
(white line)	Limit of mapping of sub-unit within undifferentiated rock unit.

SYMBOL	DESCRIPTION
—	Strike and dip of bedding, right way up.
•	Notable small outcrop with rock unit indicated.
✕	Mineral deposit location - hardware
✕	Construction materials location - hardware

Compiled by S.M. Forsyth, 2006 from the following sources (see responsibility diagram):
 A. BLAKE F. 1958. Geological Atlas 1:63360 series, sheet 47 (8314N) Longford.
 B. Aerial photo interpretation, S.M. Forsyth 2004.
 C. Road-side geological observations, S.M. Forsyth 2004.
 D. MATTHEWS, W.L. 1979. Geology and groundwater resources of the Longford Tertiary basins.
 E. NICOLLS, K. 1958. Reconnaissance soil map of Tasmania, sheet 47 Longford.
 F. New geological mapping, S.M. Forsyth 2004.



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 BLAKE, F.; MATTHEWS, W.L.; FORSYTH, S.M.; 2006. Digital Geological Atlas 1:25000 series, sheet 5039 Longford, Mineral Resources Tasmania.
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 ADD66 - AMG Zone 55. Contour Interval: 20 metres.
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