



**SCALE 1:100 000**

Transverse Mercator Projection

**INTENSITY STATEMENT**  
This is a low intensity photograph interpretation and ground observations of the order of one based on an area of 100-200 ha.

Drawn by S. Wallace.

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BASE MAP compiled from the sheets of Bogie, Bowen, Abbot Point, and Cape Upstart of the *Cadastral and Topographic 1:100 000 Series* using selected information plotted onto the *Australian Map Grid*. The *Cadastral 1:100 000 Series* was produced by the Department of Mapping and Surveying, Queensland. The *Topographic 1:100 000 Series* of Bogie, Bowen, and Abbot Point were produced by the Division of National Mapping, while the Cape Upstart sheet was produced by the Royal Survey Corps.

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**LOCALITY MAP**

Scale in kilometres  
0 200 400 600

**REFERENCE**

Mapping Unit	Major Attributes of Dominant Soil	Great Soil Group	PPF	Associated Soils
<b>SOILS OF THE UNDULATING PLAINS AND DISSECTED UNDULATING RISES ON INTRUSIVE ROCKS</b>				
<b>U</b> Kaila	350-550 mm dark loamy sand with unbleached A2 horizon over acid-neutral yellowish-brown mottled sandy clay B horizon.	Yellow podzolic soil.	Dy.5.61 Dy.5.61 Dy.5.52 Dy.5.51	Calley
<b>B</b> Buckley	250-350 mm dark sand with conspicuously bleached A2 over alkaline brown mottled medium clay B horizon.	Solodic soil.	Dy.3.43 Dy.3.42 Dy.2.43	Summerhill
<b>UNDULATING PLAINS ON INTERMEDIATE INTRUSIVE ROCKS</b>				
<b>R</b> Finley	150-300 mm brownish sandy clay loam to light clay A horizon over neutral reddish-brown medium clay B horizon.	No suitable group. (Affinities with non-calcic brown soil).	Gn.3.12 Dy.2.12	Nevada Dailyridge Wootton Wyong
<b>DISSECTED UNDULATING RISES ON INTERMEDIATE INTRUSIVE ROCKS</b>				
<b>Gr</b> Glenroc	250-450 mm dark greyish or brownish sand to light sandy clay loam with bleached A2 over neutral to alkaline yellowish-brown mottled medium clay B horizon. Some carbonate.	No suitable group. (Affinities with sodic soil).	Dy.3.12 Dy.3.13 Dy.3.33 Dy.3.22	Finley Nevada Wyong
<b>Gsp</b> Glenroc, stony phase	As for Glenroc but with 10% surface and stony phase.	No suitable group. (Affinities with sodic soil).	Dy.2.12 Dy.3.13 Dy.3.33 Dy.3.22	Nevada Wyong
<b>Wg</b> Wyong	Self-mulching black medium-heavy clay over neutral to alkaline black heavy clay, over weathering rock. Weak normal and linear gullies.	Black earth.	Ug.5.12	Armstrong Glenroc
<b>INTENSELY DISSECTED UNDULATING RISES ON INTRUSIVE ROCKS</b>				
<b>Ts</b> Thurso	250-350 mm brownish loamy sand with unbleached A2 over neutral yellowish-brown sandy clay loam B horizon. Rock fragments throughout and increasing below. Shallow soils.	Yellow podzolic soil.	Dy.2.6	
<b>SOILS OF THE PEDIMENTS AND PEDPLAINS</b>				
<b>Pf</b> Ping	150-250 mm brownish or reddish clay loam to light clay over neutral reddish-brown clay B horizon with strong structure.	Euzoaem.	Gn.3.12 Uf.6.31	Abbot Luce
<b>Md</b> Maden	600-750 mm brownish sand to sandy loam with sporadically bleached A2 over neutral yellowish-brown mottled sandy clay or medium clay B horizon. Few ferruginous nodules.	Solodic soil.	Dy.3.32 Dy.3.42	
<b>Kb</b> Knobbles	100 mm dark sandy clay loam over alkaline reddish light clay B horizon. Some carbonate.	Calcareous red earth.	Gn.3.13	Nessvale
<b>Sx</b> Sixmile	200-300 mm dark brown sand with sporadically bleached A2 over alkaline brown sandy clay to medium clay B horizon. Some carbonate.	No suitable group. (Affinities with sodic soil).	Dy.3.33 Dy.3.23	
<b>PEDEPLAINS</b>				
<b>Sa</b> Salisbury	Self-mulching black medium or heavy clay over neutral to alkaline black heavy clay B horizon over greyish clay. Some carbonate. Linear and normal gullies.	Black earth.	Ug.5.1 Ug.5.15	
<b>Wathana</b>	200-350 mm brownish sand or sandy loam with conspicuously bleached A2 over alkaline yellowish-brown mottled sandy clay or medium clay B horizon. Some ferruginous concretions.	Solodic soil-solodized solonetz.	Dy.3.43 Dy.3.43	Roundback
<b>Roundback</b>	200-350 mm brownish sand or sandy loam with conspicuously bleached A2 over alkaline yellowish-brown mottled sandy clay or medium clay B horizon. Some carbonate.	Solodic soil.	Dy.2.42 Dy.2.43 Dy.3.43 Dy.3.43	Koonandah Wathana
<b>SOILS OF THE ALLUVIAL TERRACES</b>				
<b>N</b> Nessvale	250-450 mm dark greyish loamy sand or sandy loam with unbleached A2 over neutral to alkaline brown or reddish mottled medium clay B horizon.	Non-calcic brown soil - solodic soil intergrade.	Dy.2.22 Dy.2.23 Dy.3.22 Dy.2.22	Miskin, stronger consistency phase
<b>Castlevale</b>	450-600 mm brownish sand or sandy loam with conspicuously bleached A2 over neutral yellowish-brown mottled medium clay B horizon. Some ferruginous nodules.	Solodic soil.	Dy.3.42 Dy.5.42 Dy.2.42	
<b>Moose</b>	400-450 mm black fine sandy clay loam to clay loam, over neutral brownish silty clay or light-medium clay B horizon.	No suitable group. (Affinities with minimal prairie soil).	Gn.4.22 Dy.1.12	
<b>Gumuku</b>	150-350 mm dark brownish pulverulent fine sandy loam or light sandy clay, often with bleached A2, over alkaline dark brown sandy clay or medium clay B horizon. Some carbonate.	Solodic soil.	Dy.1.13 Dy.1.43 Dy.1.33 Dy.2.13	Tabletop
<b>VERY GENTLE EROSIONAL SLOPES BESIDE STREAM CHANNELS</b>				
<b>Pf</b> Penafield	200-300 mm greyish fine sandy loam or sandy clay loam with conspicuously bleached A2 over alkaline reddish-brown medium or medium-heavy clay B horizon. Carbonate nodules.	Red brown earth.	Dy.1.43 Dy.1.43 Dy.1.33	
<b>Walch</b>	120-250 mm dark greyish sandy clay loam with sporadically bleached A2 over alkaline dark mottled medium or heavy clay B horizon. Carbonate nodules.	Solodic soil.	Dy.1.33	
<b>LEVEL PLAINS ON CEMENTED FINE GRAVEL</b>				
<b>G</b> Greentoo	600-800 mm pale greyish or yellowish coarse sand with conspicuously bleached A2 over neutral yellowish-brown mottled clayey coarse sand to sandy clay B horizon. Minor ortstein.	Rudimentary podzol.	Uc.2.21	Grasstree
<b>LEVEL PLAINS ON CEMENTED FINE GRAVEL (cont'd)</b>				
<b>K</b> Kengeroo	300-450 mm greyish or yellowish loamy coarse sand or sandy clay loam with bleached A2 over neutral to alkaline brown mottled coarse sandy clay to medium clay B horizon.	Solodic soil - solonch intergrade.	Dy.3.42 Dy.3.43 Dy.2.32 Dy.2.33	Greentoo Grasstree
<b>STAGNANT ALLUVIAL PLAINS</b>				
<b>C</b> Carew	Self-mulching dark medium-heavy clay over neutral to alkaline very dark grey heavy clay, over dark yellowish brown heavy clay. Some carbonate. Normal gullies.	Black earth.	Ug.5.15 Ug.5.16	Merinda Roundback, level phase
<b>Goodye</b>	150-250 mm dark greyish brown sandy clay loam to light clay with sporadically bleached A2 over alkaline dark greyish mottled heavy clay B horizon. Some carbonate.	No suitable group. (Affinities with sodic soil).	Dy.2.33 Dy.2.13 Uf.3 Gc.0.3	Carew (sub-dominant)
<b>Wathana, heavier textured variant</b>	As for Wathana soils, but with heavier textured (medium-heavy or heavy clay) B horizon.	Solodic soil - solodized solonetz.	Dy.3.43 Dy.3.33	
<b>Splitters</b>	100-250 mm dark brownish loamy sand or sandy clay loam with sporadically bleached A2 over neutral to alkaline black heavy clay, over dark brown heavy clay. Some carbonate. Normal gullies.	Solodic soil.	Dy.1.32 Dy.1.13	
<b>Guthalunga</b>	Self-mulching greyish clay over neutral to alkaline grey heavy clay. Some carbonate. Normal gullies.	Grey clay.	Ug.5.24	Anakey
<b>Tolgi, strongly gullied variant</b>	Thinly self-mulching greyish heavy clay over neutral to alkaline grey dense heavy clay. Few carbonate nodules. Strong cracking and gullies.	Grey clay.	Ug.5.24	Anakey
<b>Roundback, level phase</b>	As for Roundback.	Solodic soil.	Dy.2.43 Dy.2.43 Dy.2.32 Dy.2.43	
<b>POORLY DRAINED GENTLE SLOPES, PLAINS AND PRIOR STREAMS</b>				
<b>D</b> Dillon	300-450 mm dark greyish brown coarse sand to clayey sand with mainly unbleached A2 over neutral yellowish-brown mottled clayey coarse sand to sandy clay B horizon. Some ferruginous nodules.	Rudimentary podzol.	Uc.4.31 Uc.4.34 Uc.2.21	Seven Sisters
<b>Seven Sisters</b>	200-450 mm dark greyish loamy sand to sandy clay loam with conspicuously bleached A2 over yellowish-brown mottled medium clay or heavy sandy clay B horizon. Some carbonate.	Solodic soil.	Dy.3.42 Dy.2.42 Dy.2.43	Dillon
<b>SOILS OF THE FLOODPLAINS, LEVEES AND DELTAS OF MAJOR STREAMS</b>				
<b>Mg</b> Miskin, stronger consistency phase	400-550 mm dark greyish fine sandy loam or fine sandy clay loam often with unbleached A2 over neutral brownish fine sandy clay B horizon.	No suitable group.	Gn.2.42 Gn.2.45	
<b>D</b> Dan	300-500 mm black structured fine sandy clay loam to clay loam over buried soil material, mainly dark greyish neutral to alkaline medium-heavy clay or heavy sandy clay.	Prairie soil.	Dy.1.13 Gn.4.43	Delta
<b>I</b> Iwendon	200-500 mm black weakly structured sandy loam to silty clay over alkaline dark greyish sandy clay or silty clay B horizon over silty medium-heavy clay or heavy sandy clay.	No suitable group.	Uc.5.21 Uc.1.44 Uc.1.23 Gn.2.03 Gn.2.02	Delta
<b>N</b> Nolita	250-600 mm very dark grey weakly structured sandy loam to silty clay over alkaline dark greyish sandy clay or silty clay B horizon over silty medium-heavy clay or heavy sandy clay.	No suitable group. (Affinities with minimal prairie soil).	Gn.4.43 Gn.1.13 Uf.6.11	
<b>FLOODPLAINS OF MINOR STREAMS</b>				
<b>T</b> Tabletop	Self-mulching black medium-heavy clay over neutral to alkaline black heavy clay, over dark brown heavy clay. Some carbonate. Normal gullies.	Black earth.	Ug.5.15	Gumuku
<b>W</b> Wilmington	250-350 mm black coarse sand to sandy loam to silty clay over buried soil material, mainly very dark neutral heavy clay, over layered retusure deposits.	Prairie soil.	Uf.6.32 Uf.6.21 Uf.6.41	Carew
<b>FLOODOUTS AND PRIOR STREAMS</b>				
<b>D</b> Curwies	200-350 mm black coarse sand to light sandy loam, massive, over neutral dark yellowish-brown coarse light sandy loam B horizon.	No suitable group. (Affinities with silty sands).	Uc.1.23 Uc.1.44 Uc.6.14	Wilmington
<b>CREEK FLATS AND STREAM CHANNELS</b>				
<b>C</b> Creek flats and stream channels	Undifferentiated group of alluvial soils, siliceous sands, minimal prairie soils, black earths and marginal solodic soils adjacent to stream channels; floodotically annual or more frequently.			
<b>MISCELLANEOUS</b>				
<b>ES</b> Gullied and eroded areas in secondary soils.				
<b>EP</b> Gullied and eroded areas in pedgullies.				
<b>EA</b> Gullied and eroded areas in alluvial terraces.				
<b>EM</b> Gullied and eroded banks of major streams.				
<b>SS</b> Sand sheets.				
<b>SD</b> Sand dunes.				
<b>SF</b> Saline flats.				
<b>M</b> Mangroves.				
<b>Sa</b> Swamps (fresh or brackish water).				
<b>R</b> Rockland.				
<b>H</b> Hills and mountains.				
<b>S</b> Soil sampling sites.				