



This map was produced as part of a Queensland Government and National Heritage Trust (NHT) funded project.

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Mapping Unit	Major attributes of the dominant soil	Landform	Australian Soil Classification	Area (ha)	Mapping Unit	Major attributes of the dominant soil	Landform	Australian Soil Classification	Area (ha)						
<b>Coarse-grained sediments (Marburg Subgroup)</b>															
Bo	Bony	Very shallow, acid to neutral, brown, sandy loam to sandy clay loam.	Hillslopes and hillcrests of undulating plains and rises.	Leptic Tenosol / Brown Kandosol	173	Dr	Drome	Moderately deep to deep, acid, yellow to pale, loamy sand to light sandy clay loam.	Hillslopes of undulating plains and rises.	Ochric Tenosol	141				
Kl	Knoll	Very shallow, acid to neutral, brown, stony sandy loam to sandy clay loam.	Hillslopes and hillcrests of undulating plains and rises.	Leptic Tenosol / Brown Kandosol	354	Su	Springburn	Moderately deep to deep, texture contrast, with crusting surface and thick bleached A2 over sodic, alkaline, mottled clay.	Hillslopes of undulating plains and rises.	Yellow or Grey Sodosol	2230				
Dr	Drome	Moderately deep to deep, acid, yellow to pale, loamy sand to light sandy clay loam.	Hillslopes of undulating plains and rises.	Ochric Tenosol	141	Oa	Oak	Shallow to moderately deep, texture contrast, with hardsetting surface and thin bleached A2 over sodic, neutral to alkaline, yellow-brown to brown clay.	Hillslopes of undulating plains and rises.	Brown Sodosol	147				
Su	Springburn	Moderately deep to deep, texture contrast, with crusting surface and thick bleached A2 over sodic, alkaline, mottled clay.	Hillslopes of undulating plains and rises.	Yellow or Grey Sodosol	2230	Eg	Ellangowan	Moderately deep to deep, texture contrast, with hardsetting surface and bleached A2 over sodic, alkaline, mottled clay.	Hillslopes of undulating plains and rises.	Yellow or Grey Sodosol	4101				
Oa	Oak	Shallow to moderately deep, texture contrast, with hardsetting surface and thin bleached A2 over sodic, neutral to alkaline, yellow-brown to brown clay.	Hillslopes of undulating plains and rises.	Brown Sodosol	147	Ri	Ridge	Moderately deep, texture contrast, with hardsetting surface and thin bleached A2 over sodic, neutral to alkaline, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red or Brown Sodosol / Red or Brown Chromosol	1087				
Eg	Ellangowan	Moderately deep to deep, texture contrast, with hardsetting surface and bleached A2 over sodic, alkaline, mottled clay.	Hillslopes of undulating plains and rises.	Yellow or Grey Sodosol	4101	By	Boundary	Moderately deep to deep, texture contrast, with crusting to hardsetting neutral sandy clay loam surface over, neutral to alkaline, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red Chromosol	540				
Ri	Ridge	Moderately deep, texture contrast, with hardsetting surface and thin bleached A2 over sodic, neutral to alkaline, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red or Brown Sodosol / Red or Brown Chromosol	1087	<b>Fine-grained sediments (Walloon Coal Measures)</b>									
By	Boundary	Moderately deep to deep, texture contrast, with crusting to hardsetting neutral sandy clay loam surface over, neutral to alkaline, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red Chromosol	540	Tb	Tootburra	Moderately deep to deep, red-brown to red, alkaline clay.	Hillslopes of undulating plains and rises.	Red Dermosol	337				
Tb	Tootburra	Moderately deep to deep, red-brown to red, alkaline clay.	Hillslopes of undulating plains and rises.	Red Dermosol	337	Tg	Talgai	Moderately deep to deep, dark clay over mottled yellow-brown, sodic alkaline clay.	Hillslopes of undulating plains and rises.	Brown Dermosol	531				
Tg	Talgai	Moderately deep to deep, dark clay over mottled yellow-brown, sodic alkaline clay.	Hillslopes of undulating plains and rises.	Brown Dermosol	531	Es	Elphinstone	Moderately deep to deep, dark, fine self-mulching clay over mottled pale, sodic alkaline clay.	Hillslopes of level to gently undulating plains and rises.	Grey Vertosol	8170				
Es	Elphinstone	Moderately deep to deep, dark, fine self-mulching clay over mottled pale, sodic alkaline clay.	Hillslopes of level to gently undulating plains and rises.	Grey Vertosol	8170	<b>Basaltic uplands</b>									
Wl	Wellcamp	Very shallow, rocky, neutral, dark to brown, loam to clay loam.	Hillslopes and crests of undulating rises and low hills.	Brown Dermosol	55	Wl	Wellcamp	Very shallow, rocky, neutral, dark to brown, loam to clay loam.	Hillslopes and crests of undulating rises and low hills.	Brown Dermosol	55				
Km	Kenmuir	Very shallow, rocky, acid to neutral, brown to red-brown, loam to clay loam.	Hillslopes and crests of undulating rises and low hills.	Red or Brown Dermosol	2124	Ba	Beauaraba	Very shallow, rocky, neutral to alkaline, cracking, black clay.	Hillslopes and crests of undulating rises and low hills.	Black Dermosol	5813				
Ba	Beauaraba	Very shallow, rocky, neutral to alkaline, cracking, black clay.	Hillslopes and crests of undulating rises and low hills.	Black Dermosol	5813	Bt	Burton	Moderately deep to deep, neutral, red clay over tephra or red material.	Hillslopes of level to gently undulating plains.	Red Ferrosol	4796				
Bt	Burton	Moderately deep to deep, neutral, red clay over tephra or red material.	Hillslopes of level to gently undulating plains.	Red Ferrosol	4796	Sb	Southbrook	Moderately deep to deep, neutral, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red Ferrosol	2409				
Sb	Southbrook	Moderately deep to deep, neutral, red-brown to red clay.	Hillslopes of undulating plains and rises.	Red Ferrosol	2409	Ct	Charton	Moderately deep, alkaline, black, medium to coarse self-mulching, cracking clay.	Hillslopes of undulating plains and rises.	Black Vertosol	10773				
Ct	Charton	Moderately deep, alkaline, black, medium to coarse self-mulching, cracking clay.	Hillslopes of undulating plains and rises.	Black Vertosol	10773	Pw	Purrawunda	Moderately deep, alkaline, black, fine to medium self-mulching, cracking clay.	Hillslopes of undulating plains and rises.	Black Vertosol	652				
Pw	Purrawunda	Moderately deep, alkaline, black, fine to medium self-mulching, cracking clay.	Hillslopes of undulating plains and rises.	Black Vertosol	652	Ad	Aberdeen	Deep to very deep, alkaline, red-brown to red, medium to coarse self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Red or Brown Vertosol	1646				
Ad	Aberdeen	Deep to very deep, alkaline, red-brown to red, medium to coarse self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Red or Brown Vertosol	1646	Cm	Craigmore	Deep, alkaline, black, medium to coarse self-mulching, cracking clay with linear gilgai.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	9015				
Cm	Craigmore	Deep, alkaline, black, medium to coarse self-mulching, cracking clay with linear gilgai.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	9015	Iv	Irving	Deep, alkaline, black, fine to medium self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	28				
Iv	Irving	Deep, alkaline, black, fine to medium self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	28	Mg	Murtlaggan	Deep, alkaline, black, medium to coarse self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	644				
Mg	Murtlaggan	Deep, alkaline, black, medium to coarse self-mulching, cracking clay.	Footslopes and hillslopes of gently undulating plains and rises.	Black Vertosol	644	Yg	Yargullen	Moderately deep, alkaline, black, self-mulching, cracking clay over soft grey to white, calcareous material.	Drainage depressions and footslopes of undulating plains and rises.	Hypercalcic Calcargosol / Black Vertosol	84				
Yg	Yargullen	Moderately deep, alkaline, black, self-mulching, cracking clay over soft grey to white, calcareous material.	Drainage depressions and footslopes of undulating plains and rises.	Hypercalcic Calcargosol / Black Vertosol	84	<b>REFERENCE</b>									
<b>Eastern Ranges</b>															
Dr	Drayton	Moderately deep, neutral, red clay over basalt.	Hillslopes of gently undulating to undulating plains and rises.	Red Ferrosol	183	<b>Traprock (Metamorphic rocks)</b>									
Ga	Gammie	Very shallow to shallow, grey to brown, neutral loam to clay loam with abundant stone.	Hillslopes of undulating to steep rises and low hills.	Bleached-Leptic Tenosol	654	<b>Mixed basalt and fine-grained sediment colluvia</b>									
Ka	Karangi	Shallow to moderately deep, hardsetting, texture contrast with acid, brown, clay loam and thin bleached A2 over acid, red-brown to brown clay. Abundant stone throughout.	Hillslopes of undulating to steep rises and low hills.	Brown Sodosol	319	El	Ellinthorp	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay.	Footslopes and hillslopes of undulating plains and rises.	Black Vertosol	348				
El	Ellinthorp	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay.	Footslopes and hillslopes of undulating plains and rises.	Black Vertosol	348	<b>Basaltic alluvia</b>									
Eul	Eulawa	Deep to very deep, neutral to alkaline, black stratified clay with sand lenses.	Stream channels and levees.	Black Vertosol	2219	Gr	Gowrie	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay with minor stratification.	Levees and terraces.	Black Vertosol	1320				
Gr	Gowrie	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay with minor stratification.	Levees and terraces.	Black Vertosol	1320	Wc	Waco	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay over grey-brown or brown, alkaline clay.	Alluvial plains and fans, back plains.	Black Vertosol	6063				
Wc	Waco	Deep to very deep, neutral to alkaline, black, self-mulching, cracking clay over grey-brown or brown, alkaline clay.	Alluvial plains and fans, back plains.	Black Vertosol	6063	<b>Mixed alluvia</b>									
Hm	Haslemere	Deep to very deep, hardsetting, texture contrast, with acid, dark, sandy clay loam over alkaline, dark brown to dark grey clay.	Relict alluvial plains.	Brown Sodosol	749	<b>Soil Phase and Variant symbols</b>									
Dm	Dalmeny	Deep to very deep, hardsetting, texture contrast, with acid, dark, sandy clay loam over alkaline, dark clay.	Relict alluvial plains.	Black Sodosol	358	Dp	Depositional Phase								
Lb	Leyburn	Deep to very deep, hardsetting, texture contrast, with acid, pale, fine sandy clay loam over alkaline, brown clay.	Alluvial plains and backplains.	Brown Sodosol	1804	Ep	Eroded Phase								
Rd	Rodger	Deep to very deep, hardsetting, texture contrast, with neutral, pale clay loam over alkaline black clay.	Alluvial plains.	Black Chromosol	769	Sp	Shallow Phase								
Cv	Cecilvale	Deep to very deep, sodic, alkaline, dark grey clay with a thin, lighter textured, acid to neutral, crust.	Ox-bows, drainage depressions and backplains.	Grey Vertosol	68	Cv	Coarse Variant								
Mm	Millmerran	Deep to very deep, sodic, alkaline, dark grey-brown, medium to coarse self-mulching, cracking clay.	Ox-bows, drainage depressions and backplains.	Brown Vertosol	152	Rv	Red Variant								
Af	Anchorfield	Deep to very deep, alkaline, dark brown to brown, weakly self-mulching, cracking clay.	Alluvial plains and backplains.	Brown Vertosol	98	<b>Miscellaneous units</b>									
Gm	Glenmore	Deep to very deep, sodic, alkaline, black, medium to coarse self-mulching, cracking clay.	Alluvial fans and plains.	Black Vertosol	3038	DAM	Dam or other waterbody				29				
Cn	Condamine	Deep to very deep, sodic, alkaline, black, medium to coarse self-mulching, cracking clay.	Levees and terraces of the Condamine River.	Black Vertosol	11876	DLD	Disturbed land - refuse dump				5				
										DLG	Disturbed land - gravel/borrow pit or scrape				10
										DLO	Disturbed land - quarry				3
										GUL	Gully				9
										STC	Stream channel				639

Queensland Government  
Natural Resources and Mines

## SOIL SURVEY OF THE EASTERN DARLING DOWNS CLIFTON SHIRE SOILS

SCALE 1 : 100 000

UNIVERSAL TRANSVERSE MERCATOR PROJECTION  
GRID LINES ARE 5 000 METRE INTERVALS OF THE MAP GRID OF AUSTRALIA 1994 (MGA94), ZONE 56  
GEOCENTRIC DATUM OF AUSTRALIA 1994 (GDA94)

**INTENSITY STATEMENT**

This is a medium intensity soil survey consisting of ground observations and aerial photograph interpretation. Its purpose is to provide information for regional planning and catchment management and to identify agricultural and pasture production areas. For intensive land use at the property scale, more detailed examinations should be carried out prior to development.

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BASE MAP compiled from the Digital Cadastral Data Base, 2001, Department of Natural Resources and Mines, Brisbane.

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