




**Queensland Government**  
 Natural Resources and Mines

## CALLIOPE AREA SOILS

SCALE 1:75 000  
 metres 2000 0 2 4 kilometres

UNIVERSAL TRANSVERSE MERCATOR PROJECTION  
 Grid values of the Australian Map Grid, Zone 56  
 are shown in full at the south west corner of the map

REFERENCE					
Soil Code	Soil Name	Features of the Dominant Soil	Factual Key	Australian Soil Classification	Area (ha)
<b>SOILS OF THE HILLS AND RISES ON SEDIMENTARY ROCKS AND METASEDIMENTS</b>					
<b>Uniform loams</b>					
Di1	Darts	Shallow very gravelly brown loamy soil; occasional rock outcrop	Um2.12	Bleached - Leptic Tenosol	2783
<b>Gradational soils</b>					
Cr	Coorooman	Very gravelly sandy or loamy surface grading to a gravelly brown or red clay loamy massive subsoil; occasional rock outcrop	Gn2.14	Brown or Red Kandosol	2337
Ct	Cobbleton	Cobbly loamy surface grading to a gravelly red massive clay subsoil; occasional stone	Gn2.14	Red Kandosol	40
Bh	Beecher	Gravelly clay loamy surface grading to a red massive clay subsoil	Gn2.11	Red Kandosol	80
Eb	Elizabeth	Clay loamy surface grading to a red massive clay subsoil	Gn2.11	Red Kandosol	48
Lz	Lizard	Clay loamy surface grading to red structured clay subsoil; occasional gravel	Gn3.11	Red Ferrosol	67
<b>Texture contrast soils</b>					
Dc	Doonside	Gravelly loamy or clay loamy surface over red clay subsoil	Dv2.21	Red Chromosol	620
Cw	Conway	Gravelly bleached loamy surface over mottled red sodic or magesic clay subsoil	Dv3.41	Red Sodosol or Red Ferrosol	353
Aw	Awoonga	Gravelly bleached loamy surface over alkaline mottled brown sodic clay subsoil	Dv3.43	Brown Sodosol	1897
Kp	Koppel	Gravelly bleached clay loamy surface over acid mottled yellowish brown sodic clay subsoil	Dv3.41	Brown Sodosol	2247
Nb	Newby	Gravelly bleached clay loamy surface with cemented subsurface over mottled yellowish brown sodic clay subsoil	Dv3.41	Brown Sodosol	45
<b>SOILS OF RISES ON LIMESTONE</b>					
Ca	Cammo	Stony clay loamy surface grading to a red structured clay subsoil	Gn3.12	Red Dermosol	29
<b>SOILS OF HILLS AND RISES ON GRANITIC ROCKS AND SEDIMENTS</b>					
<b>Uniform or gradational soils</b>					
Gy	Gayfield	Stony loamy brown soil; occasional rock outcrop	Uk4.13	Leptic Tenosol	432
Mt	Melland	Coarse sandy or loamy surface grading to a red or brown clay loamy subsoil or coarse sandy throughout	Gn2.12 Uk5.21	Red Kandosol or Orthic Tenosol	505
Cm	Carmine	Loamy or clay loamy surface grading to a red clay subsoil	Gn2.12	Red Kandosol	48
Iv	Iveragh	Bleached coarse sand over cemented hardpan or granite	Uk2.12	Bleached - Leptic Tenosol	708
<b>Texture contrast soils</b>					
St	Stoneleigh	Stony clay loamy surface over red clay subsoil	Dv4.12	Red Chromosol	41
Sn	Sivans	Sandy or loamy surface over mottled brown clay subsoil	Dv4.22	Brown Chromosol	14
Yx	Yaxley	Very thick loamy surface with bleached subsurface over acid mottled grey clay subsoil	Dv5.41	Grey Kurosol	49
Vw	Voewood	Loamy surface with bleached subsurface over alkaline mottled grey or brown sodic clay subsoil	Dv3.43	Grey or Brown Sodosol	363
<b>SOILS OF HILLS AND RISES ON VOLCANIC ROCKS</b>					
<b>Gradational soils</b>					
Bk	Beaks	Gravelly loamy surface grading to a gravelly brown or red clay loamy massive subsoil	Gn2.44	Brown Kandosol	142
Md	Muldoon	Shallow to moderately deep, gravelly clay loamy or clayey surface grading to a red or brown structured clay subsoil	Gn3.12	Red or Brown Dermosol	4743
<b>Texture contrast soils</b>					
By	Boyles	Gravelly clay loamy surface over brown or yellowish brown clay subsoil	Dv1.23	Brown Chromosol	149
Yn	Yarvan	Gravelly clay loamy surface with bleached subsurface over yellowish brown sodic clay subsoil	Dv2.43	Brown Sodosol	200
<b>Uniform clays</b>					
Sh	Shingle	Cobbly black clayey surface with red clay subsoil	Uf6.31	Red Dermosol	2
Bm	Bompa	Shallow to moderately deep brown or black clay; occasional rock outcrop	Uf6.31 Uf6.32	Brown or Black Dermosol	400
<b>SOILS OF DRAINAGE LINES, CREEK TERRACES AND PLAINS</b>					
<b>Uniform loams and clay loams</b>					
Va	Valetta	Loamy surface with brown or red loamy subsoil	Uk5.21	Orthic Tenosol	183
Mh	Magnan	Clay loamy surface over grey cemented manganeseiferous hardpan	Um2.3	Bleached-Leptic Tenosol	14
<b>Gradational soils</b>					
Rb	Ruby	Gravelly clay loamy surface grading to a gravelly red or brown clay subsoil	Gn2.11	Red or Brown Kandosol	116
Cd	Condurray	Clay loamy surface grading to a dark structured clay subsoil	Gn3.43	Black Dermosol	119
<b>Texture contrast soils</b>					
Bk	Bale	Clay loamy surface over brown clay subsoil; over buried soils	Dv3.52	Brown Chromosol	74
Kd	Kindara	Loamy surface over black sodic clay subsoil; normal gilgai	Dv1.23	Black Sodosol	22
As	Adsett	Bleached sandy surface over mottled grey sodic clay subsoil; occasional hardpan or normal gilgai	Dv3.41	Grey Sodosol	406
Yg	Yaronga	Bleached silty surface over alkaline mottled grey to brown sodic clay subsoil; occasional normal gilgai	Dv3.43	Grey or Brown Sodosol	1812
Ln	Loma	Bleached clay loamy surface over yellowish brown sodic clay subsoil	Dv3.42	Brown Sodosol	1008
Tt	Teralba	Thick loamy surface over grey to brown sodic clay subsoil	Dv3.41	Grey or Brown Sodosol	37
<b>Uniform clays</b>					
Cs	Cassandra	Deep black to brown cracking clay; normal gilgai	Ug5.16	Black or Brown Vertosol	1279
Ah	Ashen	Deep grey cracking clay; normal gilgai	Ug5.24	Grey Vertosol	97
<b>SOILS OF RIVER TERRACES</b>					
<b>Uniform sands and loams</b>					
Ar	Amica	Brown sand over layered yellowish brown sand and water-worn gravel	Uk1.23	Stratic Rudosol	62
Bg	Berrigan	Black sandy surface with brown massive sandy subsoil; over water-worn gravel	Uk5.21	Orthic Tenosol	79
Ba	Boyanda	Black sandy surface with brown massive sandy subsoil	Uk5.21	Orthic Tenosol	165
<b>Gradational soils</b>					
Bb	Benaraby	Black loamy surface grading to a brown massive clay loamy subsoil	Gn2.42	Brown Kandosol	43
Cd	Ceduna	Black loamy surface grading to a brown structured clay subsoil	Gn3.22	Brown Dermosol	56
Ct	Catalina	Black clay loamy surface grading to a brown structured clay subsoil; over buried soils	Gn3.22	Brown Dermosol	116
<b>Texture contrast soils</b>					
Dg	Diglum	Black clay loamy surface over black clay subsoil	Dv1.23	Black Chromosol or Black Sodosol	23
Kw	Kenway	Dark loamy surface over brown sodic clay subsoil; over buried soils	Dv4.33	Brown Sodosol	31
Hw	Harwood	Dark loamy or clay loamy surface with bleached subsurface over yellowish brown sodic clay subsoil	Dv3.43	Brown Sodosol	131
Co	Camona	Black loamy or clay loamy surface over mottled yellowish brown sodic clay subsoil	Dv3.33	Brown Sodosol	41
Dor	Doral	Dark silty surface over mottled grey to brown sodic clay subsoil	Dv3.33	Grey or Brown Sodosol	78
Pt	Pitt	Bleached silty or loamy surface over mottled grey sodic clay subsoil; occasional hummocky microrelief	Dv3.43	Grey Sodosol	275
Sd	Sandralee	Thick sandy bleached surface over mottled greyish brown sodic clay subsoil	Dv5.43	Grey Sodosol	87
Sw	Stowe	Association of brown sodic texture contrast soils and brown cracking clays; normal gilgai	Dv1.43 Ug5.29	Brown Sodosol Brown Vertosol	593
<b>Uniform clays</b>					
Bs	Brooks	Dark non-cracking clay; over buried soils	Uf6.32	Black Dermosol	8
Ev	Evander	Deep partly bleached greyish brown non-cracking clay; normal gilgai	Uf3	Brown Dermosol	29
Lc	Larcom	Deep brown cracking clay; normal gilgai	Ug5.26	Brown Vertosol	282
Ma	Marla	Deep dark cracking clay; normal gilgai	Ug5.16	Black Vertosol	13
Nv	Narva	Deep mottled grey cracking clay; hummocky microrelief	Ug5.5	Aquic Rudosol	14
<b>SOILS OF BEACH RIDGES</b>					
Kk	Kinka	Association of ridges with grey to brown fine sand over yellow to brown fine sand, and cracks with bleached fine sand over brown fine sand, neutral or acid substrate	Uc1.21 Uc2.21	Arenic Rudosol Arenic Podsol	37
<b>SOILS OF TIDAL FLATS</b>					
Td	Tilden	Saline brown silty or clayey surface over mottled grey clay; over layered sulfidic clay	Uf1.43	Supratidal Hydrosol	244
<b>MISCELLANEOUS</b>					
U	Urban				

**NOTES**

- A Factual Key for the Recognition of Australian Soils (Northcote K. H. 1979).
- The Australian Soil Classification (Isbell R. F. 1996).

The Department of Natural Resources, Queensland accepts no liability for the accuracy of the information at larger scales and for other uses.

**INTENSITY STATEMENT**  
This is a medium intensity soil survey. Recorded ground observations are in the order of one per 43 ha.

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

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