

SOILS

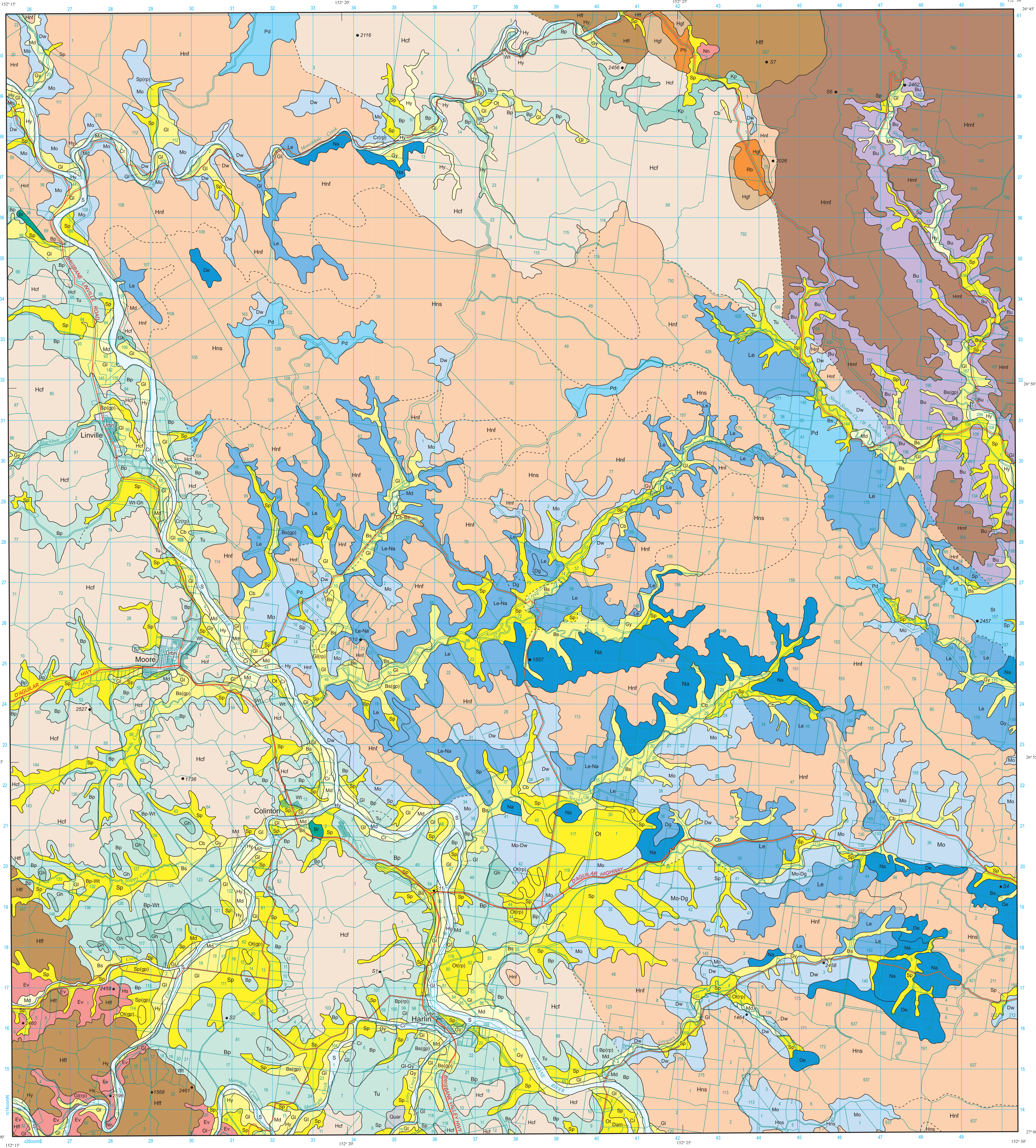
SCALE 1 : 50 000



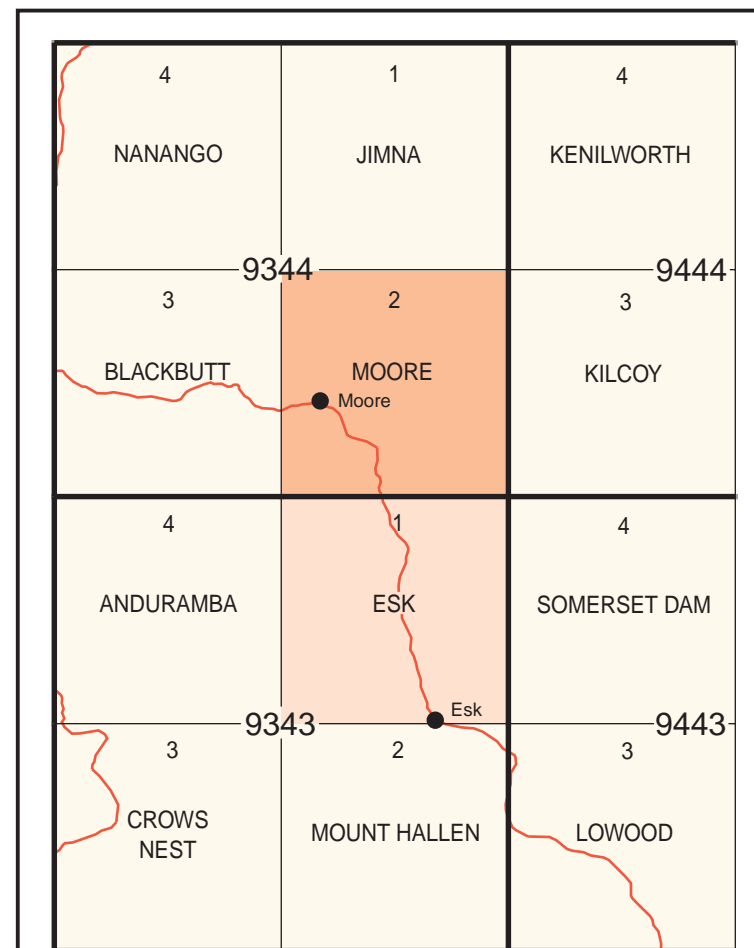
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
GRID LINES ARE 1 000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 56
GRID VALUES ARE SHOWN IN FULL AT THE SOUTH-WEST CORNER OF THE MAP
AUSTRALIAN GEODETIC DATUM 1984

REFERENCE

Mapping Unit ¹	Distinguishing Attributes Associated with Principal Soil	Main Principal Profile Forms ²	Australian Classification ³	Area ⁴ (ha)	Mapping Unit ¹	Major Attributes of Principal Soil	Main Principal Profile Forms ²	Australian Classification ³	Area ⁴ (ha)
SOILS OVERLYING ALLUVIUM									
SOILS OF THE FLOOD PLAINS AND LOW TERRACES									
Uniform to gradational sands and loams									
Cr	CRESSBROOK	Stratified soil with a sandy surface and neutral reaction trend.	Gr2.02 Uci.21 Uci.41 Uci.21	399	Dg	Very shallow soils overlying weathering rock	Um1.21 Um1.24 Um1.41 Um1.43 Um1.43 Um1.43	Leptic Rudosols	313
Cr(p)	CRESSBROOK rocky phase	Cressbrook soil with common to abundant coarse gravel or cobble in the surface soil.	Gr2.12 Um1.23 Um1.44 Um1.44 Um1.44	54	Bd	SOILS OVERLYING FINE-GRAINED ACID IGNEOUS ROCKS (Crossdale Rhyolite, undifferentiated rhyolites/trachytes)	Dd2.43 Dd2.43 Dd2.43 Dd2.43 Dd2.43	Brown, Black or Grey Sodosols	627
Hy	HONEY	Stratified soil with a loamy surface and neutral reaction trend.	Gr2.12 Gr2.42 Gr2.42 Gr2.42 Gr2.42	1 298	Bm	Texture contrast soils	Dd2.41 Dd2.41 Dd2.41 Dd2.41	Brown Sodosols; Brown Chromosols	
Md	MONSDALE	Loamy, strongly structured soil with a gradational to uniform profile and neutral reaction trend.	Gr3.12 Gr3.22 Gr3.43 Gr3.43 Gr3.43	2 288	EsK	Very shallow soils overlying weathering rock	Uci.44 Uci.44 Uci.44 Uci.44	Leptic Rudosols	74
SOILS OF THE LOW TO MID TERRACES AND ALLUVIAL PLAINS									
Texture contrast soils									
G	GALLANANI	Loamy surface soil overlying reddish brown to black, well structured clay subsoil. Neutral to alkaline reaction trend.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	3 311	Ph	SOILS OVERLYING COARSE-GRAINED ACID IGNEOUS ROCKS (Eskdale Granodiorite and other granitic intrusions)	Dd1.12 Dd1.12 Dd1.12 Dd1.12	Brown Chromosols	119
G(p)	GALLANANI rocky phase	Gallanani soil with common to abundant coarse gravel in the surface soil.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	35	Gi	Texture contrast soils with neutral to alkaline reaction trend	Dd1.12 Dd1.12 Dd1.12 Dd1.12	Brown Chromosols	
Gy	GUNYAH	Loamy surface soil over black, brown or dark grey clay subsoil with neutral to alkaline reaction trend.	Dd1.13 Dd1.13 Dd1.13 Dd1.13 Dd1.13	959	Gi	Texture contrast soils with neutral to acid reaction trend	Dd1.42 Dd1.42 Dd1.42 Dd1.42	Black or Brown Chromosols; Black or Brown Sodosols	557
Uniform clay soils									
Bs	BASEL	Grey clay (cracking or non-cracking). Subsurface may be bleached.	Ug3 Ug3.2 Ug3.2 Ug3.2 Ug3.2	1 630	Bs	Texture contrast soils with neutral to acid reaction trend	Dd2.41 Dd2.41 Dd2.41 Dd2.41	Brown, Yellow or Grey Chromosols	130
Bs(p)	BASEL gilgai phase	Basel soil with gilgai microrelief.	Ug3.3 Ug3.3 Ug3.3 Ug3.3 Ug3.3	1 182	Rb	Uniform sands	Uc1.22 Uc1.22 Uc1.22 Uc1.22	Othic Tenosols	297
Du	DUGGUA ⁵	Brown cracking clay.	Ug5.31 Ug5.31 Ug5.31 Ug5.31 Ug5.31	-	Iv	Very shallow soils overlying weathering rock	Uc1.21 Uc1.21 Uc1.21 Uc1.21	Leptic Rudosol	15
Cb	COOGEIMBARDI	Self-mulching black cracking clay.	Ug5.11 Ug5.11 Ug5.11 Ug5.11 Ug5.11	2 238	Fa	SOILS OVERLYING FINE-GRAINED SEDIMENTARY ROCKS (Marooch Creek Group, Cressbrook Creek Group, Marumba Beds: chert, jasper, mudstone, shale, greywacke)	Uc1.22 Uc1.22 Uc1.22 Uc1.22	Othic Tenosols	
SOILS OF THE MID TO HIGH TERRACES									
Texture contrast soils									
Sp	SPENCER	Loamy surface soil over brown, yellowish brown or grey clay subsoil with neutral to alkaline reaction trend. Subsurface often strongly bleached.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	8 883	EsKv	Texture contrast soils with neutral to alkaline reaction trend	Dd1.32 Dd1.32 Dd1.32 Dd1.32	Brown or Grey Sodosols; Brown or Grey Chromosols	1 608
Sp(p)	SPENCER gilgai phase	Spencer soil with gilgai microrelief.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	435	Es	Texture contrast soils with acid reaction trend	Dd2.41 Dd2.41 Dd2.41 Dd2.41	Brown, Yellow or Grey Chromosols; Brown or Grey Kurusols	153
Sp(r)	SPENCER rocky phase	Spencer soil with common to abundant coarse gravel or cobble in the surface soil.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	37	Hs	SOILS OVERLYING METAMORPHIC ROCKS (Jimna Phyllite, minor basic metavolcanics)	Dd2.41 Dd2.41 Dd2.41 Dd2.41	Red or Brown Sodosols; Red or Brown Chromosols	1 596
Ot	OTTABA	Sandy to loamy surface soil over mottled clay subsoil with acid reaction trend. Subsurface strongly bleached.	Dd2.41 Dd2.41 Dd2.41 Dd2.41 Dd2.41	1 993	Fm	Texture contrast soils	Dd1.41 Dd1.41 Dd1.41 Dd1.41	Red or Brown Sodosols; Red or Brown Chromosols	
Ot(p)	OTTABA gilgai phase	Ottaba soil with gilgai microrelief.	Dd2.41 Dd2.41 Dd2.41 Dd2.41 Dd2.41	459	Nn	Gradational to texture contrast soils with neutral reaction trend	Dd1.12 Dd1.12 Dd1.12 Dd1.12	Brown or Red Chromosols; Brown or Red Sodosols	124
Ot(r)	OTTABA rocky phase	Ottaba soil with common to abundant coarse gravel or cobble in the surface soil.	Dd2.41 Dd2.41 Dd2.41 Dd2.41 Dd2.41	628	Nn	Very shallow soils overlying weathering rock	Dd1.12 Dd1.12 Dd1.12 Dd1.12	Brown or Red Chromosols; Brown or Red Sodosols	
SOILS OVERLYING COARSE-GRAINED SEDIMENTARY ROCKS (Esk Formation, Bryden Formation, Helidon Sandstone: sandstone, conglomerate, shale, siltstone)									
Texture contrast soils with neutral to alkaline reaction trend									
Bp	BEPEO	Loamy surface soil over brown, yellowish brown or greyish brown clay subsoil. Subsurface strongly bleached. Subsoil generally sodic.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	14 512	Wl	Very shallow soils overlying weathering rock	Uc1.21 Uc1.21 Uc1.21 Uc1.21	Leptic Rudosols	
Bp(p)	BEPEO rocky phase	Bepeo soil with common to abundant coarse gravel or cobble in the surface soil.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	966	Wl	SOIL ASSOCIATIONS ON STEEP HILLS			
Wt	WATT	Loamy surface soil over brown, yellowish brown or black clay subsoil. Subsurface commonly with sporadic (weak) bleach. Subsoil generally sodic.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	1 776	Hd	Coarse-grained sedimentary rocks (Esk Formation, Bryden Formations, Helidon Sandstone)	Euca1ypt open forest	Gh, Gk, Tu, Cl, Kt, Wt	14 252
Wt(p)	WATT rocky phase	Watt soil with common to abundant coarse gravel or cobble in the surface soil.	Dd1.33 Dd1.33 Dd1.33 Dd1.33 Dd1.33	251	Hs	Coarse-grained sedimentary rocks (Esk Formation)	Softwood scrub	Lv, Ca, Gk	628
Texture contrast soils with neutral to acid reaction trend									
Cl	CALABASH ⁶	Loamy surface soil over brown or yellow clay subsoil. Subsurface may be bleached. Subsoil not sodic.	Dd2.12 Dd2.12 Dd2.12 Dd2.12 Dd2.12	-	Hm	Intermediate to basic volcanic rocks (Neara Volcanics)	Euca1ypt open forest	Le, Na, P4, Dg, St	15 919
Kp	KIPPER	Loamy surface soil over red subsoil grading to brown or yellowish brown with depth. Subsurface may be bleached. Subsoil not sodic.	Dd2.21 Dd2.21 Dd2.21 Dd2.21 Dd2.21	174	Hrs	Intermediate to basic volcanic rocks (Neara Volcanics)	Softwood scrub	De, Dg	9 696
Gh	GREENHIDE	Loamy surface soil over brown or red clay subsoil. Subsoil not sodic.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	224	Hr	Intermediate to basic volcanic rocks (Neara Volcanics)	Euca1ypt open forest	Ek, Bm	2 163
Texture contrast soils with acid reaction trend									
Tu	TURTLE	Loamy surface soil over yellow, brown or red clay subsoil. Subsurface strongly bleached. Subsoil sodic.	Dd1.31 Dd1.31 Dd1.31 Dd1.31 Dd1.31	1 630	Hr	Fine-grained acid igneous rocks (Crossdale Rhyolite, undifferentiated rhyolites/trachytes)	Euca1ypt open forest	Rb, Bl, H, Fs	1 205
Gradational to texture contrast soils with neutral to alkaline reaction trend									
Lv	LAKEVIEW	Loamy surface soil over brown clay subsoil. Softwood scrub or formerly softwood scrub vegetation.	Dd2.11 Dd2.11 Dd2.11 Dd2.11 Dd2.11	300	Hr	Coarse-grained sedimentary rocks (Eskdale Granodiorite and other granitic intrusions)	Euca1ypt open forest	Nh, Wl, Hs, Fm, Ev	12 259
Gradational to uniform loamy soils with neutral to acid reaction trend									
Hb	HIBISCUS	Red loamy soil.	Gr2.11 Gr2.12 Gr2.12 Gr2.12 Gr2.12	1 587	Hr	Fine-grained sedimentary rocks (Cressbrook Creek Group, Marooch Creek Group, Marumba Beds)	Softwood scrub	Nh, Wl, Hs, Fm, Ev	670
Yb	YELLOWBANK	Yellow or brown loamy soil.	Gr2.22 Gr2.24 Gr2.24 Gr2.24 Gr2.24	198	Hm	Metamorphic rocks (Jimna Phyllite)	Euca1ypt open forest	Bu, Yn	4 047
Uniform clay soils									
Bs	BEER	Black, brown or grey cracking clay. Forest or formerly forest vegetation.	Ug5.12 Ug5.12 Ug5.12 Ug5.12 Ug5.12	513	S	Stream			2 263
Bs(p)	BEER gilgai phase	Beer soil with common to abundant coarse gravel or cobble in the surface soil.	Ug5.31 Ug5.31 Ug5.31 Ug5.31 Ug5.31	13	Lake	Lake			1 694
Cs	CABOONBAH	Grey or brown cracking clays. Softwood scrub or formerly softwood scrub vegetation.	Ug5.22 Ug5.24 Ug5.24 Ug5.24 Ug5.24	1 222	Dam	Dam			24
Very shallow soils overlying weathering rock									
Gk	GREYNE	Very shallow loamy soil, associated with upper slopes and ridges.	Um1.21 Um1.21 Um1.21 Um1.21 Um1.21	10	Quar	Quarry			20
SOILS OVERLYING INTERMEDIATE TO BASIC VOLCANIC ROCKS (Neara Volcanics: andesite, volcanic conglomerate, agglomerate and tuff)									
Texture contrast soils with neutral to alkaline reaction trend									
Mo	MOORE	Loamy surface soil over brown, yellowish brown or greyish brown clay subsoil. Subsurface commonly bleached.	Dd1.42 Dd1.42 Dd1.42 Dd1.42 Dd1.42	5 097	Urban	Urban area			573
Dw	DUNWICH	Loamy surface soil over black, brown, brown or greyish brown clay subsoil. Subsurface commonly with sporadic (weak) bleach.	Dd1.13 Dd1.13 Dd1.13 Dd1.13 Dd1.13	3 224					
Texture contrast soils with acid reaction trend									
Pd	PADDY	Loamy surface soil over brown, yellowish brown or greyish brown clay subsoil. Subsurface commonly bleached.	Dd1.21 Dd1.21 Dd1.21 Dd1.21 Dd1.21	780					
St	STEVENTON	Loamy surface soil over red clay subsoil.	Dd2.21 Dd2.21 Dd2.21 Dd2.21 Dd2.21	202					
Shallow to moderately deep texture contrast soils with neutral reaction trend									
Le	LINVILLE	Loamy surface soil over brown, black, red or greyish brown clay subsoil.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	4 164					
Shallow to moderately deep soils with dark, strongly structured surface horizons and neutral to alkaline reaction trend									
Nb	NEARA	Uniform, gradational to texture contrast soil with a loamy to light clay surface over black, brown or greyish brown clay subsoil. Forest vegetation.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	2 533					
De	DEER	Uniform, gradational to texture contrast soil with a loamy to light clay surface over black or brown clay subsoil. Softwood scrub or formerly softwood scrub vegetation.	Dd1.12 Dd1.12 Dd1.12 Dd1.12 Dd1.12	394					
Uniform cracking clays									
Jm	JIMNA	Black or brown cracking clay with alkaline reaction trend.	Ug5.12 Ug5.12 Ug5.12 Ug5.12 Ug5.12	84					



KEY TO 1:50 000 MAPPING



The National Landcare Program, whose support is gratefully acknowledged, largely funded the Brisbane Valley Land Resource Assessment.

INTENSITY STATING

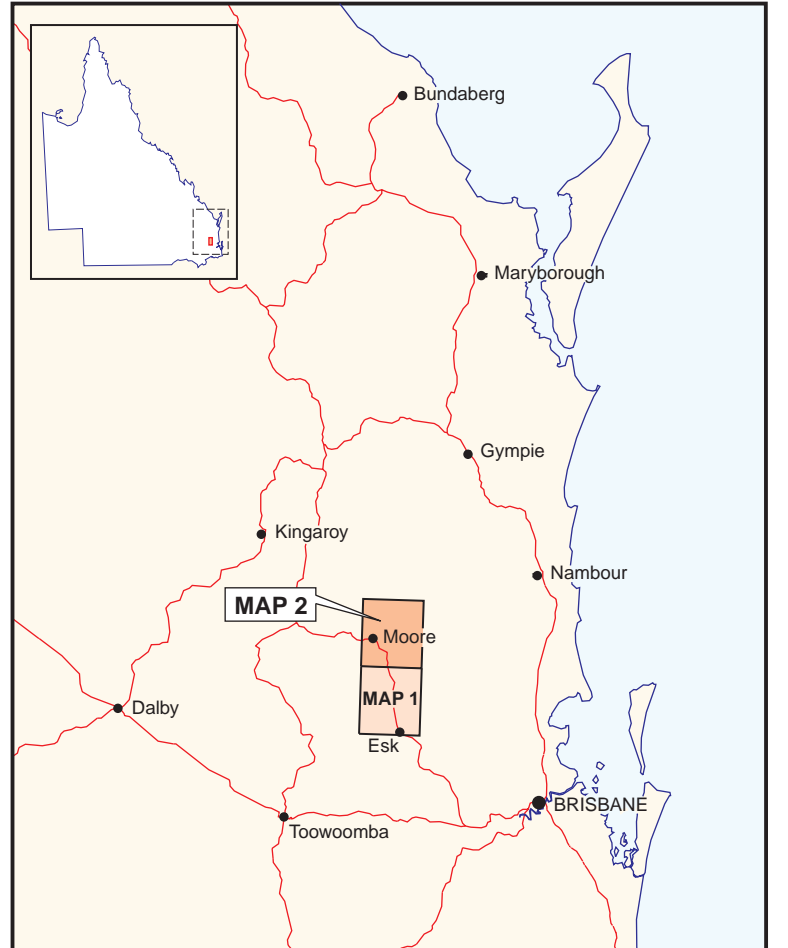
This is a medium intensity soil survey consisting of ground observations and aerial photograph interpretation. Its purpose is to provide information for regional planning and catchment management and to identify agricultural and pasture production areas. For intensive land use at the property scale, more detailed examinations should be carried out prior to development. Observation density averaged one observation per 53 ha over the entire study area, ranging from less than one per 100 ha in rugged terrain to approximately one per 25 ha in intensively used areas.

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CARTOGRAPHY by G.J. Finney, Natural Sciences Precinct, Department of Natural Resources, Indooroopilly, Brisbane.
BASE MAP compiled from the Digital Cadastral Data Base, Department of Natural Resources, Brisbane.

PRODUCED at the Natural Sciences Precinct by the Spatial Information and Mapping Group, Resource Sciences and Knowledge, Department of Natural Resources, Indooroopilly.

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LOCALITY MAP



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BRISBANE VALLEY AREA - MOORE SHEET
SOILS
DNR Ref. No. 98-BVL-IP 3233