

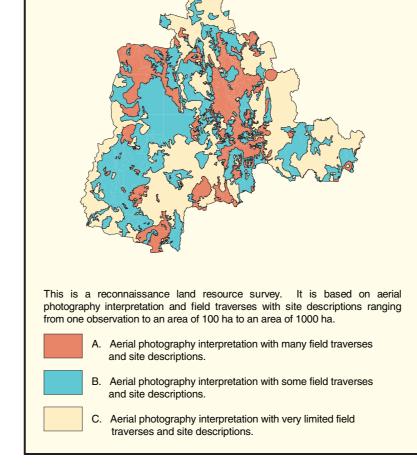
UNIVERSAL TRANSVERSE MERCATOR PROJECTION
GREY NUMBERED GRID LINES ARE 20000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 56



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	REFERENCE									
⁷³ 00 ^{000m} N	MAP CODE	LAND SYSTEM	LANDFORM AND GEOLOGY	DOMINANT VEGETATION	MAJOR SOILS	MAP CODE	LAND System	LANDFORM AND GEOLOGY	DOMINANT VEGETATION	MAJOR SOILS
	Alluvial S	ystems Three Moon	Level to gently undulating plains of recent alluvia.	Eucalypt open woodland. Queensland blue gum, Moreton Bay ash, poplar box with minor areas of helah and brigalow.	Deep*, black and grey, cracking clays (Vertosols)** and black, brown and grey non cracking clays and gradational soils (Perposols)	Pr1	Perry 1	Undulating low hills to rolling low hills on Tenningering Granodiorite.	Eucalypt woodland and open forest. Narrow-leaved ironbark, spotted gum, Moreton Bay ash, Queensland blue gum, rough barked apple, bloodwoods and swamp mahogany.	Moderately deep to deep, grey, yellow and brown, sodic duplex soils (Chromosols), and moderately deep, uniform, coarse textured soils (Tenosols).
	Cd	Ceratodus	Level to gently undulating plains of recent alluvia.	box with minor areas of belah and brigalow. Eucalypt open forest to woodland. Queensland blue gum, rough barked apple, poplar box, gum topped box, silver-leaved ironbark and Moreton Bay ash.	gradational soils (Dermosols). Deep, grey and brown, sodic duplex soils (Sodosols), black and brown, non cracking clays and gradational soils (Dermosols), uniform, coarse and medium textured soils (Tenosols and Rudosols), and grey and black, cracking clays (Vertosols)	Rp1	Raspberry 1	Undulating low hills to rolling low hills on Glassford Complex. Undulating low hills to rolling low hills on Rawbelle Batholith	Eucalypt woodland. Narrow-leaved ironbark, spotted gum, bloodwoods and Queensland blue gum. Eucalypt open forest. Narrow-leaved ironbark, pink bloodwood, silver-	Shallow to moderately deep, brown and red, sodic duplex soils (Chromosols), and moderately deep to deep, brown, yellow and grey, sodic duplex soils (Chromosols and Sodosols). Moderately deep to deep, red, brown, yellow and grey, sodic and non sodic duplex soils (Sodosols and
	Gv	Grosvenor	Level to gently undulating plains of older alluvia.	Eucalypt woodland. Poplar box, gum topped box, silver-leaved ironbark, Queensland blue gum and Moreton Bay ash.	Deep, brown and grey cracking clays (Vertosols) and sodic duplex soils (Sodosols).	Wf1	Wingfield 1	Formation. Undulating low hills to rolling low	leaved ironbark, spotted gum, Moreton Bay ash, Queensland blue gum. Eucalypt woodland.	Chromosols) and uniform, coarse textured soils (Tenosols). Shallow to moderately deep, red and brown, non
	Hw Deeply W	Hollywell eathered, Sedimer	Level to gently undulating plains of older alluvia.	Brigalow forest, shrubby eucalypt or eucalypt woodland. Brigalow, wilga, belah, silver-leaved ironbark, Queensland blue gum, Moreton Bay ash and gum topped box.	Deep, black, brown and grey, cracking clays (Vertosols) and red, brown and grey, sodic duplex soils (Sodosols).	Wb	Wonbah	hills on Wingfield Adamellite. Rolling low hills on Wonbah Granodiorite.	Narrow-leaved ironbark, silver-leaved ironbark, bloodwoods, Moreton Bay ash, poplar box and Queensland blue gum. Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, gum-topped	sodic duplex soils (Chromosols), and moderately deep to deep, grey and brown, sodic duplex soils (Sodosols) and uniform, coarse textured soils (Tenosols). Shallow to moderately deep, red and brown, non sodic duplex soils (Chromosols), moderately deep to
80	Md	Mulgildie	Plain on a plateau with associated bounding slopes on deeply weathered undifferentiated Tertiary sediments.	Shrubland and eucalypt woodland. "Softwood scrub" species, narrow-leaved ironbark, spotted gum, bloodwoods and gum topped box.	Deep, red, gradational soils and non cracking clays (Ferrosols).	Nr	Nour	Rolling low hills on Nour Nour Granodiorite.	bloodwood, Moreton Bay ash and Queensland blue gum, occasionally with understory of wattles. Eucalypt woodland. Narrow-leaved ironbark, spotted gum, silver-leaved	deep, brown, yellow and grey, sodic duplex soils (Chromosols and Sodosols), and shallow to moderately deep, uniform, coarse textured soils (Tenosols). Shallow to deep, brown, yellow and red, non sodic and sodic duplex soils (Chromosols), and shallow,
	GI	Glenleigh	Plains, gently undulating rises and minor low hills on a plateau with associated bounding slopes on deeply weathered Tertiary basalt.	Eucalypt woodland. Lemon scented gum, narrow-leaved ironbark and wattles.	Deep, red and brown, gradational soils and non cracking clays (Ferrosols).	Ev	Eidsvold	Rolling low hills to steep low hills on Eidsvold Complex.	ironbark, Queensland blue gum and Moreton Bay ash. Eucalypt woodland. Narrow-leaved ironbark, spotted gum, bloodwoods,	uniform, coarse and medium textured soils over rock (Rudosols). Shallow to moderately deep, red, brown and yellow, non sodic and sodic duplex soils (Chromosols and
	Yr	Yarrol	Undulating low hills to rolling low hills on a plateau with associated bounding slopes on deeply weathered undifferentiated	Shrubland and eucalypt woodland. "Softwood scrub" species, narrow-leaved ironbark, spotted gum, bloodwoods and gum topped box.	Deep, red, gradational soils and non cracking clays (Ferrosols).	Br2	Briggs 2	Rolling low hills to steep hills on Briggs and Yenda Granodiorite.	Moreton Bay ash and silver-leaved ironbark. Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, Queensland blue gum and Moreton Bay ash.	Sodosols) and gradational soils (Dermosols). Shallow to deep, brown, yellow and grey, sodic duplex soils (Chromosols), and red and brown gradational soils and non cracking clays (Dermosols).
	Cm	Coominglah	Tertiary sediments. Undulating low hills to rolling low hills on a plateau on deeply weathered and minor fresh Evergreen Formation.	Eucalypt open forest to woodland. Spotted gum, grey gum, narrow-leaved ironbark and bloodwoods.	Deep, red, gradational and uniform, medium textured soils (Ferrosols), non sodic duplex soils (Chromosols) and grey and brown, sodic duplex soils (Chromosols and Sodosols).	Gt	Gaeta	Rolling low hills to steep hills on Miriam Vale Granodiorite.	Eucalypt shrubby open forest to woodland. Spotted gum, lemon scented gum, narrow-leaved ironbark, brush box, bloodwoods, Casuarina species and wattles.	Shallow to moderately deep, brown and red, non sodic duplex soils (Chromosols), and uniform, coarse textured soils (Tenosols), and moderately deep to deep, brown and grey, sodic duplex soils (Sodosols and Chromosols).
	Hh	Hungry Hills	Undulating low hills to rolling low hills on deeply weathered Caswell Creek Group.	Eucalypt open forest. Narrow-leaved ironbark, spotted gum, bloodwoods, gum topped box occasionally with wattles, melaleucas and red ash.	Shallow to deep, red and brown, gradational soils (Ferrosols), non sodic and sodic duplex soils (Chromosols) and non-cracking clays (Dermosols).	Bg	Boolgal	Undulating hills to rolling hills on Boolgal Granite and Kilbeggan Adamellite.	Eucalypt shrubby open woodland. Narrow-leaved ironbark, bloodwoods, silver-leaved ironbark, rusty gum, thready bark she oak, lancewood, red ash, wattles and grasstrees.	Very shallow to shallow, uniform, coarse textured soils over rock (Rudosols), and shallow to moderately deep, brown, uniform, coarse textured soils (Tenosols).
	Hd	Hurdle	Cliff foot slopes and undulating low hills to rolling low hills primarily on deeply weathered Evergreen Formation, and unconsolidated sediments.	"Softwood scrub" forest and minor eucalypt woodland. "Softwood scrub" species, narrow-leaved ironbark, grey gum and gum topped box.	Shallow to deep, red and brown, gradational and uniform, medium textured soils and non cracking clays (Ferrosols, Kandosols and Dermosols) and non sodic duplex soils (Chromosols).	Hb Pr2	Hogback Perry 2	Rolling hills to steep hills on Hogback Granite. Rolling hills to steep hills on Tenningering Granodiorite.	Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, Queensland blue gum and Moreton Bay ash. Eucalypt open forest. Narrow-leaved ironbark, spotted gum, Moreton Bay	Shallow to deep, uniform, coarse textured soils (Tenosols) and brown, red and yellow, gradational soils (Kandosols). Shallow to deep, grey, yellow and brown, sodic duplex soils (Chromosols and Sodosols), and uniform, coarse
60	Deeply W Lp1	eathered, Duricrus	Gently undulating rises on deeply weathered	Eucalypt shrubby open forest and open forest. Narrow-leaved ironbark, silver-leaved ironbark,	Deep, red, brown, and grey, sodic duplex soils (Sodosols and Chromosols) and red, non sodic	Rp2	Raspberry 2	Rolling hills to steep hills on Glassford Complex.	ash, bloodwoods and swamp mahogany. Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum and bloodwoods.	textured soils (Tenosols). Shallow to moderately deep, brown, yellow and red, non sodic duplex soils (Chromosols) and uniform, coarse textured soils (Tenosols).
	Cc1	Clonclose 1	undifferentiated granite formations. Gently undulating rises to undulating rises on duricrusted sediments.	poplar box, rusty gum, gum topped box, wilga, false sandalwood, bull oak and wattles. Eucalypt shrubby open forest. Spotted gum, narrow-leaved ironbark, rusty gum, gum topped box, bloodwood species, bull oak, wattles, red ash and grass trees.	duplex soils (Chromosols) and gradational soils (Kandosols). Shallow to deep, brown, yellow and grey, sodic duplex soils (Sodosols), and deep, red and brown, non sodic duplex soils (Chromosols) and gradational soils (Kandosols).	Wc	Wolca	Rolling hills to steep hills on Wolca Granite	Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, gum topped bloodwood and Moreton Bay ash, minor areas of wattles and softwood scrub species.	Shallow to moderately deep, red, brown and yellow, non sodic duplex soils (Chromosols).
	Cc2	Clonclose 2	Undulating low hills to rolling low hills and mesas and cuestas on duricrusted sediments.	Eucalypt shrubby open forest and woodland. Spotted gum, narrow-leaved ironbark, rusty gum, bloodwood species, rosewood, wattles, quinine, thready bark she oak, budgeroo and dogwood.	Shallow to moderately deep, brown and grey, sodic duplex soils (Sodosols and Chromosols), non sodic duplex soils (Chromosols) and gradational soils (Kandosols).	Sedimen Eg1	tary Rocks Evergreen 1	Undulating rises to rolling rises on a plateau on Evergreen Formation.	Shrubland. "Softwood scrub" species.	Shallow to deep, uniform, coarse textured soils (Tenosols and Kandosols).
	Lp2	Lonepine 2	Undulating low hills to rolling low hills on deeply weathered undifferentiated granite formations	Eucalypt and eucalypt shrubby open forest and woodland. Spotted gum, narrow-leaved ironbark, bloodwoods,	Shallow to deep, red and brown, sodic and non sodic duplex soils (Sodosols and Chromosols).	Eg2	Evergreen 2	Undulating low hills on fresh and deeply weathered Evergreen Formation.	Brigalow forest, and eucalypt shrubby woodland. Brigalow, belah, wilga, bottletrees, "softwood scrub" species, poplar box, gum topped box, Moreton Bay ash and silver-leaved ironbark.	Deep, brown, grey and black, cracking clays (Vertosols), and shallow to deep, brown and red, gradational soils and non cracking clays (Dermosols).
	Wf2	Wingfield 2	formations. Rolling hills to steep hills on deeply weathered and	Moreton Bay ash, rusty gum, red ash, wattles and dogwood. Eucalypt shrubby woodland and woodland. Spotted gum, narrow-leaved ironbark, bloodwood,	Shallow to deep, red, gradational soils (Kandosols and Dermosols) and non sodic duplex soils	Eg3	Evergreen 3	Undulating low hills on Evergreen Formation.	Brigalow forest and eucalypt shrubby woodland. Brigalow, wilga, belah, bottle trees, false sandalwood, poplar box and narrow-leaved	Deep, black and grey, cracking clays (Vertosols), and shallow to deep, grey and brown, sodic duplex soils (Sodosols).
	Basic and	l Intermediate, Intr	metamorphosed Wingfield Adamellite. usive and Extrusive Igneous R	budgeroo, wattles, red ash and Casuarina species. ocks	(Chromosols), and moderately deep to deep, brown, gradational soils (Dermosols) and non sodic and sodic duplex soils (Chromosols).	Mt	Monto	Undulating low hills on Mulgildie Coal Measures,	ironbark. Brigalow forest and minor eucalypt woodland. Brigalow, belah, wilga, "softwood scrub" species and minor silver-leaved ironbark, poplar box,	Moderately deep to deep, brown, grey and black, cracking clays (Vertosols).
40	Mc1 Ng1	Muncon 1 Nogo 1	Undulating rises on Muncon Volcanics. Undulating rises to undulating	Brigalow open forest. Brigalow and "softwood scrub" species. Brigalow "softwood scrub" forest.	Shallow to deep, brown, grey and black, cracking clays (Vertosols), and red and brown, gradational soils and non cracking clays (Dermosols). Moderately deep to deep, black and brown, cracking	Ту	Trapyard	Undulating low hills with minor, residual ridges on undifferentiated Tertiary	Moreton Bay ash and Queensland blue gum. Brigalow forest and eucalypt shrubby woodland. Brigalow, "softwood scrub" species, narrow-leaved ironbark, gum topped box, red ash and wattles.	Deep, brown, grey and black, cracking clays (Vertosols), and shallow, red and brown, non sodic duplex soils (Chromosols) and gradational soils
	Ng I Na	Narayen	low hills on Nogo Beds. Undulating rises to undulating low hills on Narayen Beds.	Brigalow, wilga, limebush and "softwood scrub" species. Brigalow forest and eucalypt woodland. Brigalow, wilga, bottle trees and other "softwood	moderately deep to deep, black and brown, cracking clays (Vertosols) and brown and red, gradational soils and non cracking clays (Dermosols). Moderately deep to deep, brown, black and grey, cracking clays (Vertosols), red and brown, non	Кр	Kapaldo	sediments. Undulating low hills to rolling low hills on Hutton Sandstone and Mulgildie Coal Measures.	Brigalow, "softwood scrub" forest and shrubby eucalypt woodland. Brigalow, "softwood scrub" species, wilga, red ash,	(Kandosols and Dermosols). Moderately deep to deep, brown and grey, cracking and non cracking clays (Vertosols and Dermosols), and shallow to moderately deep, red and brown, non
	Hm1	Hindmarsh 1	Undulating rises to rolling low hills on fresh and deeply	Brigalow, wilga, bottle trees and other "softwood scrub" species. Silver-leaved ironbark, narrow-leaved ironbark and poplar box. Brigalow belah forest. Brigalow, belah, wilga and other "softwood scrub"	cracking clays (Vertosols), red and brown, non cracking clays and gradational soils (Dermosols), and sodic and non sodic duplex soils (Chromosols). Shallow to deep, black, brown and grey, cracking clays (Vertosols), non cracking clays (Dermosols) and	Sp	Scalper	Undulating low hills and minor rolling low hills primarily on	wattles and narrow-leaved ironbark. "Softwood scrub" forest, eucalypt woodland and shrubby woodland.	sodic duplex soils (Chromosols) and gradational soils (Dermosols). Very shallow to shallow, grey, red and brown, gradational soils and non cracking clays (Dermosols),
	Db1	Delubra 1	weathered Tertiary basalt. Undulating low hills on Delubra Quartz Gabbro.	species. Brigalow forest and eucalypt woodland. Brigalow, belah, wilga and "softwood scrub"	red, gradational soils (Ferrosols). Moderately deep to deep, brown, red and black, cracking clays (Vertosols), and shallow to deep, red	Fa4	Evergreen 4	Rannes Beds. Undulating low hills to rolling low	"Softwood scrub" species, brigalow, wilga, false sandalwood, narrow-leaved ironbark, silver-leaved ironbark, gum topped box and poplar box. Brigalow, "softwood scrub" forest.	and moderately deep to deep, brown and grey, non cracking and cracking clays (Dermosols and Vertosols) and sodic duplex soils (Sodosols). Shallow to deep, red, brown and grey, gradational
	Bb	Brumby	Undulating rises with steep low	species. Silver-leaved ironbark, Moreton Bay ash and pink bloodwood. "Softwood scrub" forest and eucalypt shrubby	and brown, gradational soils and non cracking clays (Dermosols) and sodic duplex soils (Chromosols and Sodosols). Deep, red and brown, non cracking clays	Eg4	Caswell 1	hills on Evergreen Formation. Undulating hills to rolling hills,	Brigalow and "softwood scrub" species. "Softwood scrub" forest.	soils and non cracking clays (Dermosols), and deep, brown and grey, cracking clays (Vertosols). Shallow to deep, red and brown, gradational soils
	Hm2	Hindmarsh 2	hills on Camboon Andesite. Undulating rises to rolling rises	woodland. "Softwood scrub" species, brigalow and wilga, narrow-leaved ironbark, rosewood and wattles. Eucalypt woodland.	(Dermosols), and very shallow to shallow, red, gradational soils (Kandosols and Dermosols). Shallow to deep, black cracking clays (Vertosols),	Eg5	Evergreen 5	minor steep hills on Crana Beds. Rolling hills to steep hills on	"Softwood scrub" species and brigalow. "Softwood scrub" forest and minor eucalypt shrubby	and non cracking clays (Dermosols), and very shallow, stony, medium and fine textured soils over rock (Tenosols). Deep, grey and brown, cracking clays (Vertosols), and
20	Ng2	Nogo 2	on Tertiary basalt. Undulating rises to undulating low hills on Nogo Beds.	Silver-leaved ironbark, narrow-leaved ironbark, mountain coolabah, Moreton Bay ash and bloodwoods. Eucalypt woodland. Silver-leaved ironbark, narrow-leaved ironbark,	very shallow to shallow, black, and brown, non cracking clays (Dermosols), and shallow to moderately deep, red, gradational soils and non cracking clays (Ferrosols). Moderately deep to deep, black, brown, and grey, cracking clays (Vertosols), and shallow to moderately	Ba1	Bania 1	Evergreen Formation. Rolling hills to steep hills on Wandilla Formation.	woodland. "Softwood scrub" species, belah, poplar box, gum topped box and Moreton Bay ash. "Softwood scrub" forest and minor eucalypt woodland. "Softwood scrub" species and minor silver-leaved	moderately deep to deep, red and brown, gradational soils and non cracking clays (Dermosols). Shallow to moderately deep, red and brown, gradational soils and non cracking clays (Kandosols and Dermosols).
	Wg1	Wateranga 1	Undulating rises to undulating	poplar box, Moreton Bay ash, Queensland blue gum and pink bloodwood. Eucalypt woodland.	deep, red and brown, gradational soils and non cracking clays (Dermosols), and sodic duplex soils (Chromosols). Shallow to deep, brown and black, non cracking and	Су	Cynthia	Undulating rises on Cynthia Beds.	ironbark. Eucalypt shrubby woodland. Narrow-leaved ironbark, gum topped box, silver-leaved ironbark, Moreton Bay ash, poplar box,	Moderately deep to deep, black and grey, cracking clays (Vertosols) and brown and grey, sodic duplex soils (Sodosols and Chromosols), and shallow to
	Db2	Delubra 2	low hills on Wateranga Gabbro. Undulating low hills on Delubra	Silver-leaved ironbark, narrow-leaved ironbark, bloodwoods, Queensland blue gum and Moreton Bay ash. Eucalypt woodland.	cracking clays (Dermosols and Vertosols). Moderately deep to deep, red and brown, gradational	Ht1	Hutton 1	Undulating low hills on Hutton Sandstone.	brigalow, wilga and wattles. Eucalypt shrubby woodland. Silver-leaved ironbark, poplar box, narrow-leaved	moderately deep, brown, black and grey, non cracking clays (Dermosols). Shallow to deep, brown, sodic duplex soils (Chromosols and Sodosols), and moderately deep to
	Gb	Greenbank	Quartz Gabbro. Undulating low hills to rolling low	Silver-leaved ironbark, pink bloodwood, gum topped bloodwood, narrow-leaved ironbark and poplar box. Eucalypt woodland.	soils and non cracking clays (Dermosols) and non sodic duplex soils (Chromosols), and deep, black, brown and red, cracking clays (Vertosols). Shallow to moderately deep, red and brown, non	Ht2	Hutton 2	Undulating low hills on Hutton Sandstone and Mulgildie Coal	ironbark, Moreton Bay ash, brigalow, belah, wilga and bottle trees. Eucalypt woodland. Narrow-leaved ironbark, silver-leaved ironbark,	deep, brown and grey, non cracking clays (Dermosols). Shallow to deep, brown, yellow and grey, sodic duplex soils (Sodosols).
			hills on Greenbank Quartz Diorite.	Narrow-leaved ironbark, gum topped bloodwood, silver-leaved ironbark, Queensland blue gum and apple trees.	sodic and sodic duplex soils (Chromosols), and brown and black, gradational soils and non cracking clays (Dermosols).	Cw2	Caswell 2	Measures. Undulating low hills on Caswell Creek Group and Crana Beds.	poplar box, gum topped box, Queensland blue gum and Moreton Bay ash. Eucalypt woodland. Silver-leaved ironbark, Moreton Bay ash, narrow-	Moderately deep to deep, brown, red and grey, sodic duplex soils (Sodosols and Chromosols), and shallow
	Hm3	Hindmarsh 3 Owlgully 1	Undulating low hills to rolling low hills on deeply weathered and fresh Tertiary basalt. Undulating low hills to rolling low hills on Owlgully Volcanics.	Eucalypt woodland, hoop pine plantation with minor rain forest. Silver-leaved ironbark, spotted gum, narrow-leaved ironbark, bloodwoods, Queensland blue gum, and crows ash. Eucalypt open forest to woodland. Narrow-leaved ironbark, silver-leaved ironbark,	Deep, red, gradational soils and non cracking clays (Ferrosols), and shallow to moderately deep, brown and black, non cracking and cracking clays (Dermosols and Vertosols). Shallow to moderately deep, red, gradational soils (Dermosols) and non sodic duplex soils (Chromosols),	Eg6	Evergreen 6	Undulating low hills on Evergreen Formation.	leaved ironbark and poplar box. Eucalypt woodland and eucalypt shrubby woodland. Narrow-leaved ironbark, silver-leaved ironbark, gum topped box, spotted gum, Queensland blue	to deep, red and brown, gradational soils and non cracking clays (Dermosols). Moderately deep to deep, red and brown, non cracking clays and gradational soils (Dermosols), sodic duplex soils (Chromosols), and grey, cracking clays (Vertosols).
00	Ng3	Nogo 3	Undulating low hills to rolling low	bloodwoods and Queensland blue gum. Eucalypt woodland.	and moderately deep to deep, black, non cracking and cracking clays (Dermosols and Vertosols) and yellow and brown, sodic and non sodic duplex soils (Sodosols and Chromosols). Shallow to moderately deep, red and brown, non	Eg7	Evergreen 7	Undulating low hills on fresh and deeply weathered Evergreen Formation.	gum, brigalow, wilga, false sandalwood, red ash and wattles. Eucalypt and eucalypt shrubby open forest and woodland. Poplar box, silver-leaved ironbark, narrow-leaved ironbark, Moreton Bay ash, bloodwoods, wilga, red	Shallow to deep, red and brown, gradational soils and non cracking clays (Dermosols), and moderately deep to deep, red and brown, cracking clays (Vertosols).
	Mc2	Muncon 2	hills on Nogo Beds. Undulating low hills to rolling low hills on Muncon Volcanics.	Narrow-leaved ironbark, silver-leaved ironbark, Moreton Bay ash, poplar box and bloodwoods. Eucalypt woodland. Narrow-leaved ironbark, silver-leaved ironbark,	sodic duplex soils (Chromosols), gradational soils and non cracking clays (Dermosols) and black and brown, cracking clays (Vertosols) and shallow, stony, uniform, medium textured soils over rock (Tenosols). Shallow to deep, red, brown and black, cracking and non cracking clays (Vertosols and Dermosols), and	Eg8	Evergreen 8	Undulating low hills on Evergreen Formation	ash, false sandalwood and brigalow. Eucalypt open woodland and woodland. Narrow-leaved ironbark, silver-leaved ironbark, gum topped box, Queensland blue gum, poplar box and Moreton Bay ash.	Shallow to moderately deep, grey, sodic duplex soils (Sodosols), and deep, black and grey, cracking clays (Vertosols).
	Gc	Goondicum	Undulating low hills to rolling	bloodwoods and Queensland blue gum. Eucalypt woodland.	shallow to moderately deep, brown and red, non sodic and sodic duplex soils (Chromosols) and gradational soils (Dermosols). Moderately deep to deep, red and brown, non	Eg9	Evergreen 9	Undulating low hills on Evergreen Formation	Eucalypt shrubby woodland and woodland. Spotted gum, narrow-leaved ironbark, gum topped box, Queensland blue gum, Moreton Bay ash, poplar box, wattles, red ash and "softwood scrub"	Shallow to moderately deep, red and brown, non sodic duplex soils (Chromosols), and moderately deep to deep, brown and grey, sodic duplex soils (Chromosols and Sodosols) and gradational soils
	Kb	Kariboe	hills within a rimmed basin on Goondicum Gabbro. Undulating hills to rolling hills on	Bloodwoods, narrow-leaved ironbark, silver-leaved ironbark, Queensland blue gum and Moreton Bay ash. Eucalypt open forest to woodland.	cracking clays and gradational soils (Ferrosols), and shallow to deep, black and brown, cracking clays (Vertosols). Shallow to deep, red and brown, non sodic duplex	Hr	Harrami	Undulating low hills with minor rolling low hills on Rannes Beds, Youlambie Conglomerate and	species. Eucalypt woodland. Silver-leaved ironbark, bloodwoods, Moreton Bay ash and Queensland blue gum.	(Dermosols). Shallow to moderately deep, red and brown, gradational soils and non cracking clays (Dermosols), and red, brown and black, cracking clays (Vertosols).
	Wg2	Wateranga 2	Kroombit Beds. Rolling low hills to steep hills on Wateranga Gabbro.	Narrow-leaved ironbark, bloodwoods, silver-leaved ironbark, Moreton Bay ash and Queensland blue gum. Eucalypt open forest. Narrow-leaved ironbark, gum topped bloodwood, wattles, Moreton Bay ash and grass trees.	soils (Chromosols), gradational soils and non cracking clays (Dermosols), brown and yellow, sodic duplex soils (Sodosols) and black cracking clays (Vertosols). Shallow to deep, red and brown, non cracking clays (Dermosols).	Mn1	Monal 1	Wingfield Adamellite. Undulating low hills to rolling low hills on Dawes Range Formation.	Eucalypt woodland. Narrow-leaved ironbark, silver-leaved ironbark, Moreton Bay ash, and Queensland blue gum.	Very shallow to shallow, red, sodic and non sodic duplex soils (Chromosols) and gradational soils (Dermosols), moderately deep to deep, red and brown, non cracking clays and gradational soils (Dermosols), and sodic duplex soils (Sodosols) and
	МсЗ	Muncon 3	Rolling hills to steep hills and plateaus on Muncon Volcanics.	Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, gum topped box and Queensland blue gum.	Shallow, medium and coarse textured soils over rock (Rudosols), and shallow to moderately deep, brown and grey, sodic duplex soils (Chromosols and Sodosols) and gradational soils and non-cracking	Yb	Youlambie	Rolling low hills on Youlambie Conglomerate.	Eucalypt woodland. Narrow-leaved ironbark, silver-leaved ironbark, Moreton Bay ash and Queensland blue gum.	deep, black, cracking clays (Vertosols). Stony, shallow, uniform, medium textured soils over rock (Tenosols and Rudosols) and brown and red, gradational soils (Dermosols), and moderately deep, brown and yellow, non sodic and sodic duplex soils
80	Og2	Owlgully 2	Rolling hills to steep hills on Owlgully Volcanics.	Eucalypt woodland. Narrow-leaved ironbark, bloodwoods and silver- leaved ironbark.	clays (Dermosols). Shallow, stony, uniform, medium textured soils (Tenosols), shallow to moderately deep, red, non sodic duplex soils (Chromosols) and gradational soils (Dermosols), and brown, sodic duplex soils (Sodosols) and moderately deep to deep, black,	Cw3	Caswell 3	Rolling low hills on Caswell Creek Group, Crana Beds and Cania Formation.	Eucalypt woodland. Narrow-leaved ironbark, spotted gum, silver-leaved ironbark, bloodwoods, Moreton Bay ash and Queensland blue gum.	(Chromosols and Sodosols). Shallow, stony, medium textured soils over rock (Tenosols) and red and brown, sodic duplex soils (Chromosols), and moderately deep to deep, red, gradational soils and non cracking clays (Dermosols), and brown, sodic duplex soils (Sodosols and
	Hm4	Hindmarsh 4	Rolling hills to steep hills and residual plateaus on deeply weathered and fresh Tertiary basalt.	Eucalypt open forest and woodland. Narrow-leaved ironbark, silver-leaved ironbark and bloodwood.	cracking and non cracking clays (Vertosols and Dermosols). Shallow to deep, red, gradational and non cracking clays (Ferrosols), and shallow, black and brown, non cracking clays (Dermosols) and cracking clays (Vertosols).	Eg10	Evergreen 10	Rolling low hills to rolling hills on Evergreen Formation.	Eucalypt woodland and shrubby woodland. Spotted gum, narrow-leaved ironbark, gum topped box, silver-leaved ironbark, wattles, red ash and Casuarina species.	Chromosols). Very shallow to shallow, stony, coarse to medium textured soils over rock (Rudosols), shallow to moderately deep, red and brown, non sodic and sodic duplex soils (Chromosols and Sodosols) and gradational soils (Dermosols), and moderately deep to
	Acid Volc	anic Rocks Aranbanga 1	Rolling hills to steep mountains with minor rolling low hills on Aranhanga Volcanic Group	"Softwood scrub" forest. "Softwood scrub" species, hoop pine with minor areas of soruber aum and narrow-leaved irrobark	Shallow to deep, red and brown, non cracking clays and gradational soils (Dermosols).	Cn	Cannindah	Undulating hills to steep hills on limestone within the Caswell	Eucalypt woodland. Silver-leaved ironbark, gum topped bloodwood,	deep, brown and grey, sodic duplex soils (Sodosols and Chromosols). Shallow to deep, brown, cracking clays (Vertosols) and non cracking clays and gradational soils
	Ab2	Aranbanga 2	Aranbanga Volcanic Group. Undulating low hills to rolling low hills on Aranbanga Volcanic Group.	areas of spotted gum and narrow-leaved ironbark. Eucalypt woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, Queensland blue gum and Moreton Bay ash.	Shallow, black, grey and brown, non cracking clays (Dermosols), shallow to moderately deep, brown and yellow, sodic and non sodic duplex soils (Chromosols), and moderately deep to deep, brown	Cw4	Caswell 4	Creek Group. Rolling hills on Caswell Creek	narrow-leaved ironbark, Moreton Bay ash, Queensland blue gum, gum topped box and grass trees. Eucalypt woodland.	(Dermosols), and deep, black, and grey, cracking clays (Vertosols). Shallow, stony, medium textured soils over rock
	Td	Torsdale	Undulating low hills to rolling low hills on Torsdale Beds	Eucalypt and eucalypt shrubby open forest. Spotted gum, narrow-leaved ironbark, rusty gum, bloodwoods, Queensland blue gum, wattles, cypress pine, quinine and dogwood.	(Chromosols), and moderately deep to deep, brown and grey, sodic duplex soils (Sodosols). Moderately deep to deep, brown, red and yellow, non sodic and sodic duplex soils (Chromosols) and gradational soils (Dermosols and Kandosols).			Group, Cania Formation, Crana Beds and Three Moon Conglomerate.	Narrow-leaved ironbark, silver-leaved ironbark, bloodwoods, Queensland blue gum, Moreton Bay ash, rusty gum.	(Rudosols) and red and brown, sodic duplex soils (Chromosols) and gradational soils (Dermosols), and moderately deep to deep, red and brown, sodic duplex soils (Sodosols), gradational soils (Dermosols) and black, cracking and non cracking clays (Vertosols and Dermosols).
⁷¹ 60 ^{000m} N	Ab3	Aranbanga 3	Rolling low hills on Aranbanga Volcanic Group.	Eucalypt open forest and woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, Queensland blue gum and Moreton Bay ash.	Shallow, stony, uniform, medium and coarse textured soils (Tenosols), red and brown, non sodic duplex soils (Chromosols), and black, grey and brown, non cracking clays (Dermosols) and sodic duplex soils (Sodosols).	Mn2 Ba2	Monal 2 Bania 2	Rolling hills to steep hills on Dawes Range Formation. Rolling hills to steep hills on	Eucalypt woodland to open forest. Narrow-leaved ironbark, spotted gum, grey gum, bloodwoods, silver-leaved ironbark, Queensland blue gum and Moreton Bay ash.	Shallow to deep, red and brown, gradational soils and non cracking clays (Dermosols), and non sodic and sodic duplex soils (Chromosols). Very shallow to shallow stony medium textured soils
	Ab4	Aranbanga 4 Eagle	Rolling low hills to rolling hills on Aranbanga Volcanic Group.	Eucalypt open forest to woodland. Spotted gum, narrow-leaved ironbark, Queensland blue gum, silver-leaved ironbark and bloodwoods. Eucalypt woodland and shrubby woodland.	Shallow to moderately deep, brown, red and yellow, non sodic duplex soils (Chromosols), gradational soils (Dermosols), and moderately deep to deep, yellow, brown and grey, sodic duplex soils (Sodosols). Shallow to moderately deep, uniform, medium and			Wandilla Formation.	Eucalypt woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, gum topped box, swamp mahogany, frequently with wattles, Casuarina species and zamia.	Very shallow to shallow, stony, medium textured soils over rock (Rudosols and Tenosols) and brown and yellow, gradational soils (Dermosols), and moderately deep, red, brown and yellow, gradational soils (Dermosols) and sodic duplex soils (Chromosols and Sodosols). Shallow to moderately deep, brown and gray sodies.
	Ab5	Aranbanga 5	Beds. Rolling hills to steep hills on Aranbanga Volcanic Group.	Narrow-leaved ironbark, spotted gum, pink bloodwood, red ash, quinine and wattles. Eucalypt open forest. Narrow-leaved ironbark, spotted gum, bloodwoods,	coarse textured soils over rock (Rudosols), and moderately deep to deep, brown, sodic duplex soils (Chromosols and Sodosols). Shallow, stony, uniform, medium and fine textured soils (Tenosols), red and brown gradational soils	Ht3	Hutton 3	Rolling hills to steep hills on Hutton Sandstone. Bolling hills to steep hills on	Eucalypt woodland. Spotted gum, narrow-leaved ironbark, bloodwoods, gum topped box, Moreton Bay ash, Queensland blue gum, occasionally with wattles and Casuarina species. Eucalypt woodland.	Shallow to moderately deep, brown and grey, sodic duplex soils (Sodosols). Very shallow to shallow, stony, medium textured soils
	Acid Intru	usive Rocks		Queensland blue gum and Moreton Bay ash.	(Dermosols) and non sodic duplex soils (Chromosols), and moderately deep to deep, brown, yellow and grey, sodic and non sodic duplex soils (Sodosols and Chromosols).	Cw5	Caswell 5 Precipice	Rolling hills to steep hills on Caswell Creek Group and Boiling Creek Group. Rolling low hills to steep hills with diffe and soarse on	Eucalypt woodland. Narrow-leaved ironbark, spotted gum, silver-leaved ironbark, Moreton Bay ash, gum topped box and Queensland blue gum. Eucalypt woodland.	Very shallow to shallow, stony, medium textured soils over rock (Tenosols), and shallow to moderately deep, red and brown, gradational soils and non cracking clays (Dermosols) and brown and yellow, sodic duplex soils (Sodosols and Chromosols). Very shallow to shallow, uniform, coarse and medium to tured soils over rock (Puderals) and shallow to
	Мо	Моосоо	Undulating rises to undulating low hills on Moocoorooba Adamellite.	Brigalow forest and eucalypt shrubby woodland. Brigalow, wilga, false sandalwood, poplar box, silver-leaved ironbark, gum topped box, narrow- leaved ironbark and bloodwoods.	Shallow to moderately deep, brown and grey, sodic duplex soils (Chromosols and Sodosols), and moderately deep to deep, brown and black, cracking and non cracking clays (Vertosols and Dermosols).	Metamor	rphic Rocks	with cliffs and scarps on Precipice Sandstone.	Narrow-leaved ironbark, grey gum, spotted gum, bloodwoods, wattles and Casuarina species.	textured soils over rock (Rudosols), and shallow to moderately deep, red and brown, gradational soils (Dermosols) and non sodic duplex soils (Chromosols).
	Gd	Glandore	Undulating rises to undulating low hills on Glandore Granodiorite.	Eucalypt woodland and "softwood scrub" forest. Silver-leaved ironbark, narrow-leaved ironbark, bloodwoods, poplar box and Queensland blue gum. "Softwood scrub" species.	Moderately deep to deep, red and brown, sodic duplex soils (Chromosols) and gradational soils (Dermosols).	Gn1	Goodnight 1 Goodnight 2	Rolling low hills on Goodnight Beds. Undulating low hills to rolling low	"Softwood scrub" forest. Eucalypt open forest to woodland.	Shallow to moderately deep, brown and red, gradational soils and non cracking clays (Dermosols). Shallow, stony, medium textured soils over rock
	Mg Lb	Mingo Lochabar	Undulating rises to undulating low hills on Mingo Granite. Undulating rises to rolling rises	Eucalypt woodland. Narrow-leaved ironbark, silver-leaved ironbark, gum topped box, Queensland blue gum, Moreton Bay ash and bloodwoods. Eucalypt woodland.	Moderately deep to deep, yellow, brown and grey, sodic duplex soils (Chromosols and Sodosols), and red, brown and yellow, non sodic duplex soils (Chromosols) and gradational soils (Dermosols). Shallow to moderately deep, red and brown, non	Gn3	Goodnight 3	hills on Goodnight Beds. Undulating low hills to rolling low hills on Goodnight Beds.	Narrow-leaved ironbark, Moreton Bay ash, spotted gum, bloodwoods and silver-leaved ironbark. Eucalypt open forest. Spotted gum, narrow-leaved ironbark, rosewood,	(Tenosols), and shallow to moderately deep, red, brown and grey, sodic duplex soils (Sodosols) and non cracking clays (Dermosols). Shallow, stony, uniform, medium textured soils over rock (Tenosols), and shallow to moderately deep,
	Ch	Cheltenham	on undifferentiated granites. Undulating low hills on Cheltenham Creek Adamellite.	Narrow-leaved ironbark, gum topped bloodwood, spotted gum, silver-leaved ironbark, Queensland blue gum and Moreton Bay ash. Eucalypt open forest to woodland. Narrow-leaved ironbark, spotted gum, rusty gum, bloodwoods, silver-leaved ironbark, Queensland	sodic duplex soils (Chromosols), deep, brown sodic duplex soils (Chromosols and Sodosols) and shallow, uniform, medium textured soils over rock (Rudosols). Moderately deep to deep, red and brown, non sodic duplex soils (Chromosols), and brown and grey, sodic duplex soils (Sodosols and Chromosols).	Ct1	Curtis 1	Undulating low hills to rolling low hills on Curtis Island Group.	bloodwoods and Queensland blue gum. Eucalypt woodland. Spotted gum, narrow-leaved ironbark, bloodwoods, Queensland blue gum, Moreton Bay ash and	grey and brown, sodic duplex soils (Sodosols and Chromosols) and gradational soils (Kandosols and Dermosols). Very shallow to shallow, uniform, medium textured soils over rock (Rudosols), and shallow to moderately deep, brown and yellow, sodic duplex soils
	Cv	Crystalvale	Undulating low hills on Crystalvale Adamellite.	bloowoods, silver-leaved fromark, Queerisland blue gum and Moreton Bay ash. Eucalypt woodland and shrubby woodland. Narrow-leaved ironbark, bloodwoods, silver-leaved ironbark with wilga, bottle trees, false sandalwood	Shallow to deep, brown and red, sodic duplex soils (Chromosols and Sodosols), and gradational soils (Dermosols).	Gn4	Goodnight 4	Rolling low hills to rolling hills on Goodnight Beds.	wattles. Eucalypt open forest to woodland. Moreton Bay ash, bloodwoods, silver-leaved ironbark and Queensland blue gum.	(Sodosols). Shallow to moderately deep, brown and red, uniform, medium textured soils and non cracking clays (Dermosols) and cracking clays (Vertosols), and
	Cb	Coonambula	Undulating low hills on Coonambula Granodiorite.	and wattles. Patches of brigalow forest occur. Eucalypt open forest. Narrow-leaved ironbark, silver-leaved ironbark,	Moderately deep to deep, brown, yellow and red, non sodic and sodic duplex soils (Chromosols and	Gn5	Goodnight 5	Rolling low hills to steep hills on Goodnight Beds.	Eucalypt open forest. Spotted gum, narrow-leaved ironbark, bloodwoods and Queensland blue gum.	deep, grey and yellow, sodic duplex soils (Sodosols). Very shallow, medium textured soils over rock (Tenosols), and shallow to moderately deep, brown sodic duplex soils (Sodosols and Chromosols).
	Br1	Briggs 1	Undulating low hills to rolling low hills on Briggs and Yenda	bloodwoods, Queensland blue gum and Moreton Bay ash. Eucalypt woodland. Narrow-leaved ironbark, spotted gum, bloodwoods, Moreton Bay ash and Queensland blue gum.	Sodosols), and uniform, coarse textured soils (Tenosols). Shallow to moderately deep, brown, yellow and grey, sodic duplex soils (Chromosols and Sodosols).	Ct2	Curtis 2	Rolling low hills to steep hills on Curtis Island Group.	and Queensland blue gum. Eucalypt woodland. Spotted gum, narrow-leaved ironbark, Queensland blue gum and wattles.	Very shallow to shallow, stony, medium textured soils over rock (Rudosols), and shallow to moderately deep, red and brown, gradational soils (Dermosols) and non sodic duplex soils (Chromosols).
	Cg	Culcraigie	Granodiorite. Undulating low hills to rolling low hills on Culgraigie Granite.	Moreton Bay ash and Queensland blue gum. Eucalypt woodland. Narrow-leaved ironbark, pink bloodwood, silver-leaved ironbark, Queensland blue gum, Moreton	Shallow to moderately deep, uniform coarse textured soils (Tenosols), and red and brown, sodic and non sodic duplex soils (Chromosols and Sodosols).	* Soil depth	Shallo	ow: < 0.25 m ow: 0.25 - 0.5 m ep: 0.5 - 1.0 m		בבטוו סטטוט מעויפג אטווט ניטווטוווסsois).
		ı		Bay ash, quinine, red ash and wattles.			Decembers of the Australian Sc			
			Natural Resources and accuracy, reliability, comp all responsibility and all list	DISCLAIMER: on to ensure the accuracy of this product Mines makes no representations or v bleteness or suitability for any particular pu ability (including without limitation, liability	varranties about its irpose and disclaims in negligence) for all	Uniqi	ue Map Area number (U	,		NODTH BUDNETT

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