Mapping Unit	Major attributes of dominant soils	Australian Soil Class	Area (ha)	Mapping Unit	Major attributes of dominant soils	Australian Soil Class	Area (ha)	Mapping Unit	Major attributes of dominant soils	Australian Soil Class	Area (ha)	Mapping Unit	Major attributes of dominant soils	Australian Soil Class	Area (ha)
SOILS FORMED ON	DEVONIAN/CARBONIFEROUS NERANLEIGH-FERNV	ALE BEDS		SOILS FORMED ON	JURASSIC SEDIMENTS OF THE MARBURG SUBGRO	UP (cont.)		SOILS FORMED ON T	ERTIARY (PALEOCENE TO EOCENE) BEAUDESERT BI	EDS LACUSTRINE		SOILS FORMED ON M			
Cd Corbould	Shallow to moderately deep, strongly acidic, commonly bleached and mottled, grey or brown	Grey Kandosol, Brown Kandosol,	1145	•	andstone and Koukandowie Formation)	Brown Kurosol	156	SEDIMENTS	Moderately deep, brown, texture-contrast soil over	Brown Chromosol,	1170	Bz Brabazon	Moderately deep, brown, texture-contrast soil over siltstone or sandstone below 0.5 m. Slightly acidic to	Brown Chromoso Yellow Chromosol	,
	(rarely yellow), gradational and texture-contrast soil over arenite/sandstone, chert or greywacke.	Brown Kurosol, Yellow Kurosol		KnAp Knapp Acio Phase	lic As for Knapp with strongly acidic subsoil.			Bz Brabazon		Yellow Chromosol			alkaline subsoil, mottled and occasionally saline and/or vertic.		
Fy Ferny	Occasionally saline. Very shallow to shallow, acidic to neutral, grey, black	Leptic Tenosol,	2253	Kk Koukandov	Moderately deep to very deep, bleached, brown or yellow, sodic, texture-contrast soil over siltstone or sandstone. Neutral to strongly alkaline subsoil,	Brown Sodosol, Sodic Brown or Yellow Chromosol	3 206	Brabazon	vertic. As for Brabazon with strongly acidic B horizon.	Brown Kurosol	358	BzAp Brabazon Acidic Phase	As for Brabazon with strongly acid B horizon.	Brown Kurosol	358
гу гетту	or brown, loamy to clay loamy soil over chert or sandstone/arenite below 0.1 m.	Bleached-Leptic Tenosol, Clastic/Leptic			mottled, occasionally calcic and/or saline. Moderately deep to very deep, acidic to neutral,	Grey Sodosol,	11 500	BZAP Acidic Phase	Moderately deep to very deep, strongly acidic to	Grey Chromosol	1115	Ds Dunsinane	Shallow to moderately deep, slightly acidic to neutral, occasionally mottled, brown or red, gradational and	Brown Dermosol, Red Dermosol,	, 273
	Mederately doop to doop, acidia to poutral, rad or	Rudosol Brown Dermosol,	2228	Lw Lowood	bleached, mottled, grey, sodic, texture-contrast soil over sandstone (rarely siltstone). Occasionally saline.	Grey Chromosol,	11 300	Be Brennan	neutral, frequently bleached, mottled, texture-contrast soil. Grey, brown or yellow subsoil over sandstone or	Grey Kurosol			non-cracking clay over siltstone, mudstone or sandstone below 0.3 m. Occasionally sodic subsoil.	Brown Kandosol	
Nr Neranleigh	Moderately deep to deep, acidic to neutral, red or brown, gradational and non-cracking clay over greenstone, mudstone, chert, arenite, conglomerate	Red Dermosol, Yellow Dermosol	2220	Mu Mundoolur	Shallow, slightly acidic, frequently bleached and/or mottled, brown or grey texture-contrast and	Brown Chromosol, Grey Chromosol,	13 554	Dn Drynan		Red Chromosol,	1008	SOILS FORMED ON I	/IOCENE TO QUATERNARY COLLUVIUM		
Neranleigh	or sandstone. Shallow, strongly acidic to neutral, black, uniformly	Black Dermosol	64		gradational soil over sandstone. Occasionally saline.	Brown Kandosol, Brown Dermosol		Dn Drynan	acidic subsoil. Lower subsoil generally grey,	Red Kurosol		Er Ernest	Moderately deep to deep, acidic to neutral, frequently bleached, grey, gradational and non-cracking clay.	Grey Dermosol	337
NrSp Shallow Phase	medium-textured soil over conglomerate or sandstone < 0.5 m deep.			Pv Pine Vale	Moderately deep to deep, strongly acidic to neutral, bleached, mottled, grey, texture-contrast soil over sandstone or siltstone. Occasionally saline.	Grey Chromosol, Grey Kurosol	6 218	Drynan Deep	occasionally alkaline and calcic in siltstone saprolite. As for Drynan with depth >1.0 m.	Red Chromosol,	887		Commonly mottled, slightly gravelly subsoil, occasionally alkaline at depth. Sandstone or rhyolite present below 0.9 m.		
	LATE CARBONIFEROUS MOUNT BARNEY BEDS			Ra Rathdowne	Moderately deep to deep, acidic to neutral, frequently	Red Chromosol,	5 973	DnDp Phase	Moderately deep to very deep, strongly acidic to	Red Kurosol Brown Vertosol,	1139	Sh Shaws	Deep to very deep, frequently mottled, black, non- cracking clay over colluvium. Neutral to alkaline	Black Dermosol , Brown Dermosol	203
CI Clutha	Moderately deep to deep, strongly acidic to neutral, mottled, frequently bleached, grey or yellow, texture-	Grey Chromosol, Yellow Chromosol,	5408		^y bleached, red, texture-contrast soil (also gradational t uniformly fine) over sandstone or siltstone below 0.6 i Occasionally mottled and/or sodic.			Gd Gould	neutral, brown, black or grey, occasionally sodic, cracking clay, over siltstone.	Black Vertosol, Grey Vertosol			subsoil, occasionally very slightly gravelly and/or saline and rarely calcic.		
	contrast soil over quartzose sandstone (rarely siltstone or shale).	e Grey Kurosol, Yellow Kurosol,		Ri Richards	Moderately deep to very deep, slightly acidic to	Grey Dermosol	1080	Jo Josephville		Red Dermosol Brown Dermosol	914	Wo Wonglepong	Shallow to moderately deep, black, cracking and non- cracking clay over basalt colluvium or basalt rock	Black Dermosol,	1227
		Grey Kandosol, Grey Dermosol			alkaline, mottled, grey, gradational and non-cracking clay over siltstone or sandstone below 0.65 m. Subsc occasionally sodic and/or saline.	il			siltstone below 0.4 m. Subsoil occasionally saline. Deep to very deep, brown or black, cracking clay over	Black Vertosol,	666		below 0.75 m. Neutral to strongly alkaline subsoil, occasionally saline or calcic at depth.	Brown Dermosol	
Fy Ferny	Very shallow to shallow, acidic to neutral, grey, black or brown, loamy to clay loam soil over chert or sandstone/arenite below 0.1m.	Leptic Tenosol, Bleached-Leptic Tenosol,	2253	St Stockleigh	Moderately deep to very deep, acidic to neutral, grey, texture-contrast soil over sandstone. Mottled subsoil,		1452	Ka Kagaru	siltstone. Alkaline, calcic, commonly mottled subsoil. Occasionally saline.	Brown Vertosol		Wo-Er Wonglepong Ernest	Complex of Wonglepong and Ernest soils.	See above	452
		Clastic/Leptic Rudosol			occasionally alkaline or saline at depth. Moderately deep to very deep, acidic to neutral,	Brown Sodosol,	2624	Lv Laravale	bleached, brown, black or grey, texture-contrast soil	Brown Chromosol, Grey Chromosol,	611		Complex of Wonglepong and Palen soils.	See above	667
SOILS FORMED ON	LATE TRIASSIC CHILLINGHAM VOLCANICS			Ti Tilley	bleached, brown or yellow, sodic, texture-contrast soi over sandstone below 0.6 m. Rarely saline.	Yellow Sodosol, Yellow Chromosol,	2021		over sandstone or siltstone below 1.0 m. Frequently mottled and occasionally saline or sodic subsoil.	Black Chromosol		Complex			
Er Ernest	Moderately deep to deep, acidic to neutral, frequently bleached, grey, gradational and non-cracking clay.	Grey Dermosol , Grey Kurosol	337	Wm Woolaman	Very shallow to moderately deep, acidic to neutral,	Yellow Kurosol Leptic Tenosol, Bleached-Leptic	13 482	Ni Nindooinbah	Moderately deep, neutral to strongly alkaline, red or brown, non-cracking clay and gradational soil over	Red Dermosol, Brown Dermosol	1367	SOILS FORMED ON F	LEISTOCENE TO HOLOCENE ALLUVIUM		4000
	Sandstone or rhyolite present below 0.9 m. Commonly mottled, slightly gravelly subsoils, occasionally alkaline	y .			sandy to loamy soil over sandstone below 0.25 m.	Tenosol, Brown-Orthic			sandstone or siltstone below 0.5 m. Lower subsoil frequently mottled, brown, yellow or grey.			Bs Basel	Deep to very deep, grey, cracking clay. Neutral to alkaline subsoil, occasionally sodic, calcic and/or saline at depth.	Grey Vertosol, Aquic Vertosol, Redoxic Hydrosol	1090
Pp Philp	at depth. Moderately deep to deep, strongly acidic to neutral,	Brown Dermosol,	1091			Tenosol, Leptic Rudosol		NiAp Nindooinbah Acidic Phase	non-cracking, uniformly fine clay (rarely gradational)	Red Dermosol Brown Dermosol	485	Bg Beausang	Deep to very deep, slightly acidic to alkaline,	Grey Chromosol,	602
	brown, black or red, non-cracking clay over rhyolite.	Black Dermosol, Red Dermosol		Bi-Ra Bi-Ra Rathdowne Complex	Complex of Birnam and Rathdowney soils. By	See above	1480		over sandstone or siltstone below 1.0 m. Dark surface horizon over frequently mottled, brown, yellow or grey subsoil.				frequently bleached, mottled, grey, very strong texture contrast soil over sandstone or siltstone influenced alluvium. Buried alluvial horizons are common.		
SOILS FORMED ON	LATE TRIASSIC IPSWICH COAL MEASURES			Bi-Ti Birnam-Till Complex	ey Complex of Birnam and Tilley soils.	See above	197	NiDp Nindooinbah	Deep to very deep, neutral to strongly alkaline, red or	Red Dermosol Brown Dermosol	1026	Bl Bell-Seq	Deep to very deep, black, cracking clay (not self- mulching). Alkaline subsoil, occasionally calcic,	Black Vertosol	8617
CI Clutha	Moderately deep to deep, strongly acidic to neutral, mottled, frequently bleached, grey or yellow, texture-	Grey Chromosol, Yellow Chromosol, e Grey Kurosol,	5408	FI-Cv Flanagan- Cedar Vale	Complex of Flanagan and Cedar Vale soils.	See above	19	Deep Phase	gradational) over sandstone or siltstone from 1.0 m. Dark surface horizon over frequently mottled, brown,	2.5mm Dermosol			mottled and/or saline at depth. Deep to very deep, black, cracking, self-mulching clay	/ Black Vertosol	3671
	contrast soil over quartzose sandstone (rarely siltstone or shale).	Grey Kurosol, Yellow Kurosol, Grey Kandosol,		Complex		Coo shows	2000	Saville	yellow or grey subsoil.	Grey Sodosol,	1003	Bm Blenheim	Alkaline and calcic subsoil, occasionally saline at depth. Occasionally buried alluvial horizons.		
	Moderately deep to deep, frequently bleached, brown	Grey Dermosol Brown Chromosol,	5078	Fl-Ra Fl-Ra Rathdowne Complex	Complex of Flanagan and Rathdowney soils. y	See above	2008	Sv	mottled, brown or grey, sodic, texture-contrast soil over sandstone or siltstone.	Brown Sodosol		B Bremer	Deep to giant, black, brown or grey, non-cracking clay Neutral to alkaline, non-calcic subsoil, occasionally	/. Black Dermosol, Brown Dermosol,	, 1278
Ko Kooralbyn	(rarely red), texture-contrast soil over siltstone or sandstone. Strongly acidic to neutral subsoil,	Brown Kurosol, Red Chromosol, Red Kurosol		GI-Ra Gl-Ra Rathdowne	Complex of Glenoake and Rathdowney soils.	See above	322	Sa Sarabah	Very shallow to shallow, black or brown, clay over basalt below 0.1 m. Neutral subsoil, occasionally	Black Dermosol Brown Dermosol	6241		mottled, saline and/or vertic. Buried horizons are not encountered within 1.8 m.	Grey Dermosol	
Ya Yarrabilba	frequently mottled, occasionally saline or sodic. Very shallow to moderately deep, strongly acidic to	Leptic Tenosol,	4080	Complex	vie- Complex of Koukandowie and Lowood soils.	See above	1934	Wm Woolaman	saline or very slightly gravelly. Very shallow to moderately deep, acidic to neutral,		13 482	BBp Bremer Buried Phase	As per Bremer soil with buried horizons by 1.8 m.	Black Dermosol, Brown Dermosol,	1975
	neutral, sandy to loamy soils over sandstone below 0.2 m.	Bleached-Leptic Tenosol, Brown- Orthic Tenosol,		Kk-Lw Lowood Complex				Will Woolaman	sandy to loamy soil over sandstone below 0.25 m.	Bleached-Leptic Tenosol, Brown-Orthic Tenosol,		Br Bridge	Deep to very deep, brown, sporadically or	Grey Dermosol Brown Vertosol, Grey Vertosol	244
		Grey-Orthic Tenosol, Leptic Rudosol		SOILS FORMED ON	I JURASSIC SEDIMENTS OF THE WALOON COAL ME	ASURES				Leptic Rudosol			conspicuously bleached, cracking clay (not self- mulching). Acidic and frequently mottled subsoil.	-	405
Ko-Ya Kooralbyn- Yarrabilba	Complex of Kooralbyn and Yarrabilba soil.	See above	1127	Bz Brabazon	Moderately deep, brown, texture-contrast soil over siltstone or sandstone below 0.5 m. Slightly acidic to	Brown Chromosol , Yellow Chromosol	1170	SOILS FORMED ON E	XTRUSIVE EARLY MIOCENE ALBERT BASALTS	Black Vertosol,	1630	Bn Bromelton	Very deep, grey or brown, non-cracking clay or gradational soil. Acidic and mottled subsoil, occasionally vertic and saline.	Grey Dermosol, Brown Dermosol	195
Complex					alkaline, mottled subsoil, occasionally saline and/or vertic.			Ch Chinghee	Moderately deep to deep, black or brown, cracking clay (not self-mulching) over basalt. Neutral to strongly alkaline subsoil, frequently calcic and/or saline.		1030	Cb Cooeeimbard	Deep to very deep, neutral to alkaline, black, self-	Black Vertosol	778
SOILS FORMED ON SUBGROUP	LATE TRIASSIC TO EARLY JURASSIC SEDIMENTS OF	THE WOOGAROO		BzAp Brabazon Acidic Pha	As for Brabazon with strongly acidic B horizon. se	Brown Kurosol	358	Gp Glenapp	Very deep, neutral to alkaline, black, self-mulching,	Grey Vertosol Black Vertosol	693		occasionally saline subsoil.	Brown Chromoso	bl . 1214
Bd Biddaddaba	Moderately deep, acidic to neutral, bleached, mottled, grey, sodic, texture-contrast soil over sandstone.	Grey Sodosol, Grey Chromosol	5967	Be Brennan	Moderately deep to very deep, strongly acidic to neutral, frequently bleached, mottled, grey, brown or	Grey Chromosol, Grey Kurosol	1115	<u> </u>	cracking clay. Calcic subsoil over basalt or basalt colluvium			Co Cookes	Moderately to very deep, frequently bleached, brown, texture-contrast soil over sandstone or siltstone influenced alluvium. Acidic, frequently mottled, clay	Brown Kurosol	1, 1217
	Occasionally saline.	(sodic) , Grey Kurosol (sodic)			yellow, texture-contrast soil, over sandstone or siltstone.		1000	Go Gorman	Shallow, neutral to alkaline, black or brown, cracking clay over hard or weathered basalt below 0.3 m. Rarely self-mulching or calcic.	Black Vertosol , Brown Vertosol	604		loam subsoil. Occasionally sodic with salinity at depth	Stratic Rudosol,	28
CI Clutha	Moderately deep to deep, strongly acidic to neutral, frequently bleached, mottled, grey or yellow, texture- contrast soil over quartzose sandstone (rarely siltstone	Grey Chromosol, Yellow Chromosol, Grey Kurosol,	5408	Dn Drynan	Moderately deep (also shallow), red, texture-contrast soil over siltstone or sandstone. Acidic or strongly acidic subsoil, occasionally alkaline or calcic, general	Red Kurosol	1008	Li Lindesay	Deep to very deep, black (also brown or rarely grey),	Black Vertosol , Brown Vertosol,	568	Cr Cressbrook	Very deep to giant, acid to neutral, sandy soil over buried alluvial horizons and/or bedload.	Arenic Rudosol	20
	or shale).	Yellow Kurosol, Grey Kandosol,			grey at depth, in siltstone saprolite.				self-mulching, cracking clay over basalt below 1.2 m. Neutral to strongly alkaline subsoil, very frequently calcic, occasionally mottled and/or saline.	Grey Vertosol		Du Duggua	Deep to very deep, brown, cracking clay (not self- mulching). Alkaline or occasionally neutral subsoil, commonly mottled, calcic and/or sodic and	Brown Vertosol	670
Clutha Deep	As for Clutha with depth >1.5 m	Grey Dermosol Grey Chromosol,	1199	DnDp Drynan Deep Phas	As for Drynan with depth >1.0 m. e	Red Chromosol, Red Kurosol	887	Pa Palen	Deep to very deep, black, cracking clay over basalt and basalt colluvium. Neutral to strongly alkaline,	Black Vertosol , Brown Vertosol,	3481	_	occasionally saline. Moderately deep to very deep, neutral, black, texture-	Black Chromosol	43
Variant		Yellow Chromosol, Grey Kurosol, Yellow Kurosol,		DnAp Drynan Alkaline	As for Drynan with strongly alkaline lower subsoil containing calcareous segregations.	Red Chromosol Red Kurosol	32			Black Dermosol		Gr Grigor	contrast soil. Buried alluvial horizons are common. Deep to very deep, alkaline, black, texture-contrast	Black Chromosol	
		Grey Kandosol, Grey Dermosol		Phase Ed Edendale	Moderately deep to very deep, neutral to strongly	Black Dermosol	718	Sa Sarabah	Very shallow to shallow, black or brown, clay over basalt below 0.1 m. Neutral subsoil, occasionally	Black Dermosol, Brown Dermosol	2650	Gy Gunyah	soil. Loam to clay loam surface over black clay. Subsoil occasionally calcic and/or vertic.	Black Chromosor	422
Ko Kooralbyn	Moderately deep to deep, frequently bleached, brown (rarely red), texture-contrast soil over siltstone and	Brown Chromosol, Brown Kurosol,	5078		alkaline, black, non-cracking clay over sandstone or siltstone. Frequently calcic subsoil. Occasionally saline.			Sarabah	saline or very slightly gravelly. As for Sarabah without a B2 horizon	Leptic Tenosol	7306	Hr Hooper	Deep to very deep, black, non-cracking clay. Strongly alkaline and calcic subsoil at depth. Buried alkaline,	Black Dermosol	238
	sandstone. Strongly acidic to neutral subsoil, frequently mottled. Occasionally saline or sodic.	Red Chromosol, Red Kurosol		EdAp Edendale Acidic Pha	As for Edendale with strongly acidic subsoil usually o se crests of low hills.	n Black Dermosol	126	SaTv Tenosol Variant				_	calcic, alluvial layers are common. Moderately deep to deep, acidic to neutral, brown,	Orthic Tenosol	77
KoDp KoDp Deep Phase	Very deep, strongly acidic, bleached, mottled, brown, texture-contrast soil over sandstone. Occasionally	Brown Kurosol	777	Gd Gould	Moderately deep to very deep, strongly acidic to	Brown Vertosol , Black Vertosol,	1139	Tt Tartar	over basalt below 1.0 m. Neutral to alkaline subsoil,	Black Dermosol, Brown Dermosol	1847	Jm Jimboomba	sandy soil. Buried alluvial layers are common.		
Lw Lowood	saline. Deep to very deep, acidic to neutral, bleached,	Grey Sodosol,	5533	_	neutral, brown, black or grey, cracking clay over siltstone. Occasionally sodic.	Grey Vertosol	914		occasionally slightly gravelly, vertic and/or calcic, rarely saline.		5000	Km Kilmoylar	Deep to very deep, neutral, commonly bleached, frequently mottled, brown or yellow, texture-contrast	Brown Chromoso Yellow Chromosol	
	mottled, grey, sodic, texture-contrast soil over sandstone (rarely siltstone).	Grey Chromosol, Grey Kurosol		Jo Josephville	Shallow to moderately deep, occasionally mottled, re- or brown, non-cracking clay over sandstone or siltstone below 0.4 m. Subsoil occasionally saline.	Brown Dermosol	914	Tartar TtSp Shallow Phas	Shallow to moderately deep, neutral to alkaline, black e or brown, uniformly fine soil. Hard or weathered basalt below 0.6 m.		5699		soil. Loamy surface. Brown or grey lower subsoil. Deep to very deep, black or grey (also brown), non-	Black Dermosol,	1304
Ya Yarrabilba	Very shallow to moderately deep, strongly acidic to neutral, uniformly sandy to loamy soil with <15% clay, over sandstone below 0.2 m.	Leptic Tenosol, Bleached-Leptic Tenosol, Brown	4080	Ka Kagaru	Deep to very deep, brown or black, cracking clay ove siltstone. Alkaline, calcic, commonly mottled subsoil,	r Black Vertosol Brown Vertosol	666	Tm Telemon		Red Dermosol	74	Ls Lockrose	cracking clay. Neutral to alkaline subsoil, occasionally mottled, saline or calcic.	Grey Dermosol , Brown Dermosol	
	clay, over sandstone below 0.2 m.	Orthic-Tenosol, Grey Orthic-Tenosol,		_	occasionally saline.		611	Ch-Sa Chinghee- Sarabah	Complex of Chinghee and Sarabah soils.	See above	4121	Ly Lockyer	Deep to very deep, black or brown, non-cracking gradational clay over mixed source alluvium. Clay	Black Dermosol, Brown Dermosol,	, 1009 ,
CI-Ya Clutha-	Complex of Clutha and Yarrabilba soils.	Leptic Rudosol See above	606	Lv Laravale	Deep to very deep, neutral to strongly alkaline, rarely bleached, brown, black or grey, texture-contrast soil over sandstone or siltstone below 1.0 m. Subsoil	Grey Chromosol, Black Chromosol		Complex	Complex of Chinghee and Tartar Shallow Phase soils.	See above	4512		loam or sandy clay loam surface over neutral to alkaline clay (often silty or sandy). Occasionally faintly mottled, sodic or saline subsoil over older horizons.	Black Kandosol, Brown Kandosol	
Complex					frequently mottled and occasionally saline or sodic.	Grov Dormosol		Ch-TaSp Ch-TaSp Tartar Shallov Phase Comple	N		4012	SOILS FORMED ON F			
Ko-Ya Yarrabilba Complex	Complex of Kooralbyn and Yarrabilba soils.	See above	1127	Ld Lillydale	Moderately deep to very deep, grey, non-cracking (rarely gradational) clay over sandstone or siltstone below 0.9 m. Subsoil frequently mottled and neutral to	Grey Dermosol	1155	Go-Sa Gorman- Sarabah	Complex of Gorman and Sarabah soils.	See above	4793	Lg Logan-Seq	Deep to very deep, neutral, brown or black, loam to clay loam soil. Rarely mottled, massive or weakly	Brown Kandosol , Black Kandosol	, 774
	JURASSIC SEDIMENTS OF THE MARBURG SUBGROU	ID		1.14	strongly alkaline. Moderately deep to very deep, strongly acidic to	Grey Dermosol	230	Complex Pa-Gp Clenann	Complex of Palen and Glenapp soils.	See above	1127	_	structured subsoil. Buried alluvial horizons at depth. Deep to very deep, acidic, bleached, grey, texture-	Grey Kurosol,	QR
	ndstone and Koukandowie Formation)		5000	LdAp Lillydale Acidic Pha	neutral, bleached, frequently mottled, grey, non- cracking clay and gradational soil over sandstone and	•		Complex	Compley of Sarabah and Sarabah Terrest Main	See above	119	Ma Maclean	contrast soil. Grey or black, loam to clay loam subsoil over frequently mottled and vertic grey clay.		
Bi Birnam	Moderately deep to deep, acidic to neutral, bleached and/or mottled, brown or yellow, texture-contrast soil over sandstone. Occasionally saline.	Brown Chromosol, Yellow Chromosol, Black Chromosol	5060	Ni Nindooinba	siltstone below 0.6 m. Moderately deep, neutral to strongly alkaline, red or	Red Dermosol Brown Dormosol	1367	Sa-SaTv Sarabah- Sarabah Tenosol Varia	soils.		113	Mr Maroon	Deep to very deep, grey or brown, non-cracking clay. Brown, grey or yellow lower subsoil.	Grey Dermosol , Brown Dermosol	517
Cv Cedar Vale	Very shallow to shallow, strongly acidic to neutral, texture-contrast, gradational and non-cracking clay	Red Chromosol, Red Dermosol,	9515		^{an} brown, non-cracking clay and gradational soil over sandstone or siltstone below 0.5 m. Mottled, brown, yellow or grey, lower subsoil.	Brown Dermosol		Complex				Mn Monsildale	Deep to very deep, neutral, black or brown, gradational soil. Black, clay loam over black or brown	Black Dermosol,	53
	over sandstone or siltstone below 0.3 m. Deep to very deep, neutral to alkaline, frequently	Red Kurosol Brown Dermosol,	1104	NiAp Nindooinba	h Moderately deep to very deep, acidic, red or brown,	Red Dermosol Brown Dermosol	1166	SOILS FORMED ON EA GRANOPHYRE	RLY MIOCENE MOUNT GILLIES RHYOLITE AND MOUN	IT BARNEY CENTRAL C	OMPLEX		clay. Weakly to moderately structured subsoil. Buried horizons below 1.0 m.		
Db Dulbolla	mottled, brown or yellow, gradational and non-cracking clay over siltstone. Occasionally over buried horizons			Acidic Pha	se non-cracking uniformly fine clay (rarely gradational) over sandstone or siltstone from 1.0 m. Dark surface horizon over frequently mottled, brown, yellow or grey			Ba Barney	Shallow, gravelly, uniformly coarse to medium textu soils. Dark sandy loam to clay loam surface over	Bleached-Leptic	259	Pn Payne	Deep to very deep, acidic to neutral, brown or grey, cracking clay. Acidic to neutral, mottled and often	Brown Vertosol , Grey Vertosol	282
DbSp Dulbolla	below 0.6 m. Deep to very deep, neutral to alkaline, frequently	Brown Dermosol	222	Nindooinba	subsoil. A Deep to very deep, neutral to strongly alkaline, red or	Red Dermosol	1026		brown to grey sandy clay loam or clay loam over rhyolite.	Tenosol, Leptic Rudosol		Rs Robinson	sodic subsoil. Very shallow to shallow, black or brown soil over	Arenic Rudosol,	99
Sodic Phase	mottled, brown, sodic, gradational, non-cracking clay over siltstone and sandstone. Strongly alkaline subsoil, frequently calcic and saline. Occasionally over	r		NiDp Deep Phas	brown, non-cracking uniformly fine clay (rarely gradational) over sandstone or siltstone below 1.0 m.	Brown Dermosol		Pp Philp	Moderately deep to deep, strongly acidic to neutral, brown, black or red, non-cracking clay over rhyolite.	Brown Dermosol Black Dermosol, Red Dermosol	, 1091		buried layers of sediment or coarse bedload (gravel, cobble or stone).	Stratic Rudosol, Clastic Rudosol	
	buried horizons. Deep to very deep, acidic, frequently bleached, red,	Red Dermosol,	1404		Dark surface horizon over frequently mottled, brown, yellow or grey subsoil.	d Group Badaaad	1000			rtea Dermosol		SI Sippel	Deep to very deep, brown or grey, texture-contrast soil. Loam to clay loam surface. Neutral to alkaline,	Brown Chromoso Grey Chromosol	bl , 454
FI Flanagan	uniform, gradational or texture-contrast soil over siltstone or sandstone. Strongly acidic, frequently	Red Kandosol, Red Kurosol		Sv Saville	Deep to very deep (rarely moderately deep), bleache mottled, brown or grey, sodic, texture-contrast soil over sandstone or siltstone.	d, Grey Sodosol Brown Sodosol	1003		IOCENE BEECHMONT AND HOBWEE BASALT Very shallow to moderately deep, black or red (rarel	y Black Dermosol,	1419		clay loam to clay subsoil, occasionally calcic and/or mottled, saline or sodic at depth.		
	mottled subsoil. Moderately deep, acidic to neutral, occasionally	Brown Dermosol,	1840	Wm Woolaman	Very shallow to moderately deep, acidic to neutral	Leptic Tenosol, Bleached-Leptic	13 482	Ce Cainbable	brown), non-cracking clay over basalt below 0.2 m. Subsoils range from acidic to neutral.	Red Dermosol, Brown Dermosol		Sp Spencer	Deep to very deep, neutral to alkaline, frequently bleached, grey or brown, sodic, texture-contrast soil. Mottled and occasionally saline subsoil at depth.	Grey Sodosol , Brown Sodosol	73
GI Glenoake	mottled, brown or yellow, gradational and non-cracking clay. Frequently alkaline and calcic below 0.6 m.	-			,	Tenosol , Brown-Orthic Tenoso	l,	SaTv Sarabah Tenosol	As for Sarabah without a B2 horizon.	Leptic Tenosol	7306	Wa Waterford	Deep to very deep, strongly acidic, grey, brown or	Grey Vertosol, Brown Vertosol	1383
Gd Gould	Moderately deep to very deep, strongly acidic to neutral, brown, black or grey, cracking clay over siltstone. Occasionally sodic.	Brown Vertosol, Black Vertosol, Grey Vertosol	1139	Bz-Jo Brabazon-	Complex of Brabazon and Josephville soils.	Leptic Rudosol See above	502	Variant Tamborine	Deep to very deep, acidic to neutral, red, non-cracki	ng Red Ferrosol,	520		black, cracking clay. Mottled, grey, and/or occasional sodic or saline subsoil.	Black Vertosol	
Ha Hardgrave	Deep to very deep, neutral to alkaline, frequently	Brown Chromosol	459	D2-J0 Josephville Complex Lillydale-	Complex of Lillvdale and Saville soils.	See above	866	la	clay. Non-saline. Shallow to moderately deep, black, cracking and no	Red Dermosol n- Black Vertosol,	1227	B-BBp Bremer Burie Phase Comp		See above	894
	mottled, brown, texture contrast soil over sandstone (rarely siltstone or coal). Loamy surface. Frequently strongly alkaline and calcic subsoil.			Ld-Sv Ldl-Sv Saville Complex	Complex of Linyuale and Saville Solis.		000	Wg	cracking clay over basalt colluvium or basalt rock below 0.75 m. Neutral to strongly alkaline subsoil,	Black Dermosol, Brown Dermosol		BBp-BI Buried Phase	Complex of Bremer Buried Phase and Bell soils.	See above	274
Ka Kagaru	Deep to very deep, brown or black, cracking clay over siltstone. Alkaline, calcic, commonly mottled, and	Black Vertosol, Brown Vertosol	666	Ni-Dn Nindooinba Drynan	ah- Complex of Nindooinbah and Drynan soils.	See above	1644	Ce-Wo Cainbable-	occasionally saline or calcic at depth. Complex of Cainbable and Wonglepong soils.	See above	16 460	Bell Complex Bell Complex Bilenheim-	 Complex of Blenheim and Monsildale soils.	See above	398
	saline subsoil.		856	Complex Nindooinba	ah- Complex of Nindooinbah and Nindooinbah Deep	See above	3564	Ce-Wo Wonglepong Complex				Bm-Mn Monsildale Complex			
Kn Knapp	Deep to very deep, neutral to alkaline, bleached, brown, texture-contrast soil over sandstone (rarely siltstone). Frequently mottled, brown, yellow or grey	Brown Chromosol	856	Nindooinba Deep Phas Complex								B-Mn Bremer- Monsildale	Complex of Bremer and Monsildale soils.	See above	52
	clay lower subsoil.			Complex								Complex Jm-Cr Jimboomba- Cressbrook	Complex of Jimboomba and Cressbrook soils.	See above	29
												Complex	Complex of Locan and Crossher - 1	See above	37
												Lg-Cr Logan- Cressbrook Complex	Complex of Logan and Cressbrook soils.	See above	57



LOCALITY MAP



PROJECT MAP SECTION KEY



OBSERVATIONS & SURVEY SCALE



MAPPING CONFIDENCE







SURVEY NOTES

The Land Resource Assessment of the Logan and Albert Rivers Catchment (LARA) survey, presents the mapping area in two parts - Northern Section (MAP 1) and Southern Section (MAP 2).

This reference sheet describes 'Soil Profile Classes' (SPCs) mapped according to their geomorphic origins and is to be read in conjunction with MAPS 1 and 2.

Soil boundaries are based on site observations and interpretations from digital data including 1:100 000 scale surface geology, 1:100 000 scale Regional Ecosystems mapping, 1m resolution LiDAR digital elevation data.

Proportions of soils within each map unit are listed in the Soil and Land Information data base (SALI) held by the Queensland Government.

The map sections for the LARA project are suitable for a printed scale of 1:50 000 at A0 size.

Agricultural Land Classifcation mapping (MAP 4), accompanies the LARA report.

Project Resources: refer to the Queensland Government - QSpatial catalogue "LARA" report for attribute values and additional information at http://qldspatial.information.qld.gov.au/catalogue/custom/search.page The published 'LARA' project report can be accessed through the Queensland Government web site - https://www.publications.qld.gov.au

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SPATIAL DATA SOURCES

Data supplied by the Department of Natural Resources, Mines and Energy: property boundaries (Digital Cadastre Database, January 2020); adjoining soil survey boundaries; watercourses, baseline roads and tracks, place names (Queensland place names database).

MAP PRODUCTION

H.Walter, Spatial Information, Resource Assessment & Information, South Region, Department of Natural Resources Mines and Energy. January 2020. Version 1. This is 1 of 4 mapping components which accompany the report publication: Land Resource Assessment of the Logan and Albert Rivers Catchment (Smith, DG & Calland, BD 2019).

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Land Resource Assessment of the Logan and Albert Rivers Catchment

South-East Queensland

MAP 3

SOIL REFERENCE AND INFORMATION

