KEN Kennion Land System

Area: 330.1 km²

Landscape: Complex of calcarenite ranges and corridor plains on Reedy Creek and West Avenue

Ranges between Furner and Kingston. The ranges are low, narrow ridges often with exposed calcarenite, but also with deep sands. Flats are stony, sandy and swampy.

Annual rainfall: 585 – 750 mm average

Geology: Flats with lacustrine deposits of the Pleistocene Padthaway Formation and dune

ranges with calcreted aeolianite of the Pleistocene Bridgewater Formation barrier

shoreline deposits.

Main soils: B3 (19%) Shallow sandy loam on calcrete (Petrocalcic Red Tenosol-Kandosol-

Rudosol)

H3 (15%) Bleached siliceous sand (sandy Bleached Tenosol)

B7 (10%) Shallow sand over clay on calcrete (sandy Petrocalcic Sodosol-Chromosol)

B8 (10%) Shallow sand on calcrete (sandy Petrocalcic Rudosol-Tenosol)

Minor soils: G3 (9%) Thick sand over clay (sandy Brown-Red Chromosol-Sodosol)

RR (9%) Bare calcrete

B6 (8%) Shallow loam over red-brown clay on calcrete (Petrocalcic Red Chromosol-

Kandosol)

(5%) Highly leached sand (Aeric Podosol)

Summary: The dune ranges dominate the land system. They have both shallow soils on

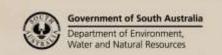
calcarenite and deep water repellent, infertile sands. Swales and flats in dune

corridors are prone to waterlogging. Some salinity occurs in swales and corridor plains

in the northern parts.

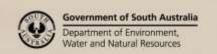
Soil Landscape Unit summary: Kennion Land System (KEN)

SLU	% of area	Component	Main soils	Prop#	Notes
MAB	0.2	Rise	B3RR	D	MAB Gently undulating calcreted former beach ridges with
MAC	0.1	Rise	B3RR	D	stony, very shallow red and brown loam, occasionally over red
MAD	0.7	Rise	RRB3	D	clay, on calcrete. >50% bare calcrete.
					MAC as above, undulating slopes.
					MAD as above, rolling rises and low hills, bare rock is dominant.
					Main soils: <u>Shallow sandy loam on calcrete</u> - B3 and <u>Rock or</u>
					<u>exposed calcrete</u> – RR .
M-B	0.8	Rise	B4	D	M-B Gently undulating calcreted former beach ridge rises with
M-C	1.3	Rise	RRB3	D	reddish loam, mostly grading to red clay loam or clay, on calcreted calcarenite; 10-30% with red texture contrast soil on
M-D			B3RR	_	
MI-D	0.1	Rise		٧	calcrete or very deep where solution hollows in the calcrete
		Swale	B6	L	have been in-filled with soil material.
M-U	0.3	Rise	B4	٧	M-C Undulating rises, with shallow sandy loam, mostly over
	I ISMAIO INIOPA II II II	poorly structured brown or red clay on calcrete. <50% bare calcrete.			
					M-D Rolling rises with very shallow sandy loam over calcreted
					calcarenite or bare calcrete; 10-30% sandy loam over red clay
					on calcrete, or thin calcareous sand. 10-20% swales with loam
					over red clay on calcrete.
					M-U Rises as for M-B; 10-20% swales with, often wet, shallow



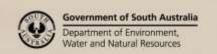


					loam over, poorly structured brown, or less commonly red, clay.
					10-30% very shallow loam on calcrete.
					Main soils:
					Rises: Shallow sandy loam on calcrete - B3, Shallow red loam
					on limestone - B4 and <u>Rock or exposed calcrete</u> – RR .
					Swales: Shallow sandy loam over red-brown clay on calcrete -
					B6, Wet clay loam - N3 and Sand over friable brown clay on
					<u>calcrete</u> - B7 .
MCB	0.6	Dune range	B6B3	D	Gently undulating dune range rises with; shallow sand over red
			H3		clay, or on calcreted calcarenite; often water repellent, deep
					siliceous bleached sand; 10-30% shallow sand over poorly
					structured clay on calcrete.
					Main soils: <u>Shallow sandy loam over red-brown clay on calcrete</u>
					- B6, <u>Shallow sandy loam on calcrete</u> - B3 and <u>Bleached</u>
					siliceous sand - H3.
MDGK	0.6	Plain	B4B5	D	Gently undulating plain with mostly reddish clay loam over clay
		Karst swamp	WW	М	on calcrete on slightly elevated, better drained parts; and dark
			N1N3		grey clay loam over dark clay on calcrete on less well drained
					areas, which are subdominant. <10% karstic swamps, mostly
					water filled; or with peat or wet dark clay loam soils.
					Main soils:
					Plains: Shallow sandy loam on calcrete - B3, Shallow red loam
					on limestone - B4 and <u>Shallow dark clay loam on limestone</u> - B5 .
					Swamps: Peaty soil – N1, Wet saline clay loam - N2c and Wet
					clay loam - N3.
MEB	3.8	Stony rise	В3	٧	MEB Gently sloping calcarenite rises with shallow sand over
		Dune	11H3	L	calcrete soils. 10-20% dunes with water repellent, deep siliceous
MEC	9.3	Stony rise	В3	٧	sands.
		Dune	I1H3	L	MEC Undulating stony rises with very shallow soils as above. 10-
			В8	_	20% dunes as above, also with shallow bleached siliceous sand
					on calcrete.
					Main soils:
					Stony rises: Shallow sandy loam on calcrete - B3 and Shallow
					sandy loam over red-brown clay on calcrete - B6 .
					Dunes: Highly leached sand - 11 Bleached siliceous sand - H3
					and <u>Shallow sand on calcrete</u> - B8 .
MGE	0.0	Depression	B7B5	D	Depression with shallow sandy loam over poorly structured
					brown clay on calcrete; or shallow dark clay loam over dark
					clay on calcrete. 10-30% bare calcrete.
					Main soils: <u>Sand over friable brown clay on calcrete</u> - B7 and
					Shallow dark clay loam on limestone - B5 .
MHAA	7.4	Plain	H3G3	D	MHAA Plains and low dunes with mostly deep, bleached
MHB		Dune	НЗ	Е	siliceous sand, often over yellow-brown clay. Calcrete substrate
		Stony range	B3RR	Е	at depth. Low dune core topography.
MHC	5.8	Dune range	H3I1	D	MHB Gently sloping calcarenite ridge with deep bleached
	0.0	Bonorango	B7		siliceous sands on dunes, often over brown sandy clay. Co-
			,		dominant are shallow stony rises with shallow siliceous sand on
					calcrete or bare rock, occasionally sandy loam on red clay on
					calcrete.
					MHC Undulating slopes on calcarenite range as for MHB but
					with 10-30% of rise areas have rock outcrop or shallow sand on
					calcrete or deep siliceous sand on coffee rock or brown sandy
					clay.
					Main soils:
					Plains: Bleached siliceous sand - H3 and Thick sand over clay -
					G3.
					Dunes: Bleached siliceous sand - H3.
					Stony ranges: Shallow sandy loam on calcrete - B3 and Rock or
					exposed calcrete - RR. Dung ranges: Placehod silicagus sand H3. Highly logghod
					Dune ranges: Bleached siliceous sand - H3, Highly leached sand - I1 and Sand over friable brown clay on calcrete - B7.
					<u>sana-11 ana sana over mable brown ciay on calcrete</u> - B7 .



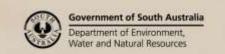


MILIZ	1 /	Б	110	_	Person II and I all and I
MHK	1.6	Dune	Н3	E	MHK Undulating dune range with soils as for MHB, but also
		Stony range	B3RR	E	<10% swales with shallow bleached sand, mostly over brown
		Swale	G3B7	М	clay, on calcrete; or occasionally, deep sand. Main soils:
			B8		Dunes: Bleached siliceous sand - H3.
					Stony ranges: Shallow sandy loam on calcrete - B3 and Rock or
					exposed calcrete – RR. Swales: Thick sand ever clay. C3. Sand ever frights brown clay.
					Swales: Thick sand over clay - G3, Sand over friable brown clay
MiYA	7 0	Plain	B8B7	D	on calcrete - B7 and <u>Shallow sand on calcrete</u> - B8 . Plains with bleached siliceous sand, often over poorly
WILLY	0.0	FIGITI	DOD/		structured yellow-brown clay, on calcrete.
					Main soils: <u>Shallow sand on calcrete</u> - B8 and <u>Sand over friable</u>
					brown clay on calcrete - B7 .
MJA	1 1	Plain	B3B8	D	Plains with often bleached, siliceous sand on calcrete.
WIJA	1.1	FIGITI	БЭБО		
					Main soils: <u>Shallow sandy loam on calcrete</u> - B3 and <u>Shallow sand on calcrete</u> - B8 .
MKB	1.0	Ctopy range	RRB3	D	
MKB	1.9	Stony range	-	D	MKB Gently undulating stony range rises with bare calcrete; or
MKC	0.1	Stony range	B6 RRB3	D	shallow sandy loam often over thin red clay on calcrete. MKC Undulating stony range rises with soils as above.
MIKC	0.1	siony range		D	Main soils: Rock or exposed calcrete – RR, Shallow sandy loam
			B6		on calcrete - B3 , and Shallow sandy loam over red-brown clay
					on calcrete - B6 .
MLB	2.5	Stony range	RRB3	V	MLB Gently undulating stony range rises with bare calcrete; or
WILD	2.5	Siony range	B6	'	shallow sandy loam often over thin red clay on calcrete. 20-
		Sandy range	H3I1	С	30% water repellent, deep bleached siliceous sand.
MLC	0.1	Stony range	RRB3	V	MLC Undulating range rises and low hills with soils as for MLB.
MILC	0.1	310Hy runge	B6	v	Main soils:
		Sandy range	H3I1	С	Stony ranges: Rock or exposed calcrete – RR, Shallow sandy
		sariay range	ПЭП		loam on calcrete - B3, and Shallow sandy loam over red-brown
					clay on calcrete - B6 .
					Sandy ranges: Bleached siliceous sand - H3 and Highly leached
					sand - I1.
MNAA	9.1	Plain	G3B7	V	Plains with low dune core topography; deep sand over brown
			В8		clay; or shallow bleached sand, often over poorly structured
		Stony rise	B8B3	L	brown clay, on calcreted calcarenite. 10-20% stony rises with
		,	RR		shallow, often bleached, sand on calcrete; or bare calcrete
					Main soils:
					Plains: Thick sand over clay - G3, Sand over friable brown clay
					on calcrete - B7 and <u>Shallow sand on calcrete</u> - B8 .
					Stony rises: Shallow sandy loam on calcrete - B3, Shallow sand
					on calcrete - B8 and Rock or exposed calcrete - RR.
MRB	2.6	Rise	B6B4	D	Gently undulating, calcreted low dune core ridges, with
			В3		shallow sandy loam to clay loam mostly over red clay on
					calcrete, but also shallow sandy loam on calcrete.
					Main soils: <u>Shallow sandy loam over red-brown clay on calcrete</u>
					- B6 , <u>Shallow sandy loam on calcrete</u> - B3 and <u>Shallow red loam</u>
					<u>on limestone</u> - B4 .
MSB	4.4	Dune range	B8H3	D	MSB Gently undulating dune range rises with shallow siliceous
			12		sand on calcrete or deep bleached, water repellent acid
MSC	0.4	Dune range	B8H3	D	sands. 10-30% of the area has shallow sandy loam over red clay
			12		on calcrete soils.
MSE	0.5	Swale	B8B7	D	MSC Undulating rises with shallow bleached sand over
					calcrete; or deep, acid, water repellent, siliceous, bleached
					sand. 10-30% shallow siliceous, over red clay, on calcrete.
		i e			MSE Swale with shallow bleached sand, often over poorly
					structured brown clay, on calcrete.
					structured brown clay, on calcrete. Main soils:
					, and the second
					Main soils:
					Main soils: Dune ranges: Shallow sand on calcrete - B8 , Bleached siliceous



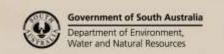


MwB	1.9	Undulating	B6B4	D	MwB Undulating plains with shallow sandy loam to clay loam
		plain			over red clay on calcrete; 10-30% very shallow sandy loam on
MwL	0.3	Undulating	B6B4	٧	calcrete or bare calcrete.
		plain			MwL Undulating plains as above; 10-20% swales with shallow
		Swale	B5B3	L	dark sandy loam; often over dark clay loam; or shallow poorly
			В7		structured brown clay; on calcrete or directly on calcrete.
					Main soils:
					Undulating plains: Shallow sandy loam over red-brown clay on
					calcrete - B6 and <u>Shallow red loam on limestone</u> - B4 .
					Swales: Shallow dark clay loam on limestone - B5, Shallow
					sandy loam on calcrete - B3 and Sand over friable brown clay
					<u>on calcrete</u> - B7 .
MWB	0.3	Rise	В7	D	MWB Gently undulating rises with shallow sand over poorly
MWK	1.6	Plain	B8B3	V	structured brown clay, on calcrete. 10-30% shallow sand, often
		Stony rise	B3RR	L	over red clay, on calcrete, or deep siliceous sand.
		Swamp	B5B3	L	MWK Plains with shallow, often bleached, siliceous sand over
		0 · · · G · · P	N3	-	calcrete. 10-20% stony rises with very shallow sand on calcrete,
					or bare calcrete. 10-20% swamps with often wet, shallow dark
					loam, often over dark clay, on calcrete.
					Main soils:
					Rises: Sand over friable brown clay on calcrete - B7.
					Plains: Shallow sand on calcrete - B8 and Shallow sandy loam
					on calcrete - B3 .
					Stony rises: Shallow sandy loam on calcrete - B3 and Rock or
					exposed calcrete - RR.
					Swamps: Shallow dark clay loam on limestone - B5, Shallow
					sandy loam on calcrete - B3 and <u>Wet clay loam</u> - N3 .
MXG	0.4	Gently	B3B7	D	MXG Gently undulating plain with shallow sandy loam, often
11110	0.1	undulating	DOD7		over poorly structured brown clay, on calcrete; 10-30% bare
		plain			calcrete. <10% swales with shallow dark grey loam, often over
		Swale	B5B3	М	dark grey, or poorly structured brown, clay on calcrete.
		Swale	B7	1,4,1	MXL Gently sloping rises with bare calcrete or very shallow
MXL	47	Rise	RRB3	V	sand over calcrete. 20-30% swamps with wet, dark clay loam or
WIZEL	7./	Swamp	N3N1	C	peat soils.
MXT	0.2	Plain	RRB3	V	MXT Poorly drained plains with bare calcrete rock or very
14174 1	0.2		N3N1	L	shallow sandy loam on calcrete. 10-20% swamps with shallow
		Swamp	INSINI	-	wet loams or peats.
					Main soils:
					Plains: Shallow sandy loam on calcrete - B3 and Sand over
					friable brown clay on calcrete - B7 and Rock or exposed
					<u>calcrete</u> – RR .
					Swales: Shallow dark clay loam on limestone - B5, Shallow
					sandy loam on calcrete - B3 and <u>Rock or exposed calcrete</u> -
					RR.
					Swamps: Wet clay loam - N3 and Peaty soil – N1.
NDG	0.2	Depression	G3B7	D	Depression with deep sand over brown clay, often on calcrete.
	0.2	2 0,010001011	3357		Main soils: Thick sand over clay - G3 and Sand over friable
					brown clay on calcrete - B7 .
NjI	3.9	Stony plain	B7	V	Stony plains with shallow loam over poorly structured yellow-
1 'J*] 5.7	Swamp	N3	ľ	brown clay on calcrete. 10-20% swamps with mostly wet dark
		3,,41116	1.10	-	loam; 10-30% dark loam over calcareous dark clay or calcrete.
					Main soils:
					Stony plains: Sand over friable brown clay on calcrete - B7.
					Swamps: Wet clay loam - N3.
NkP	∩ २	Plain	G3	V	Plains with deep sand over yellow-brown clay. 20-30% sandy
1 111	0.5	Sandy rise	11H3	C	rises with deep, strongly water repellent, acid, bleached
		Juliuy 1150	11113		siliceous sand; 10-30% less well drained sands with coffee rock
					or clay subsoils.
					Main soils:
					Plains: Thick sand over clay - G3.
					Sandy rises: Highly leached sand - 11 and <u>Bleached siliceous</u>
					<u>sand</u> - H3 .





NpG	0.3	Depression	E1E3	D	Depression with deep black or grey cracking clay soils; 10-30%
- 1		Swamp	N3E1	М	wet soils. <10% swamps with mostly wet soils as above.
		0 · · · G. · · · 0	E3		Depressions: Brown or grey cracking clay – E3 and Black
					cracking clay - E1.
					Swamps: Wet clay loam - N3, Brown or grey cracking clay - E3
					and <u>Black cracking clay</u> - E1 .
NSF	0.1	Plain	G3G5	V	Plains with deep acid sand over, often strongly acid brown clay
1101	0.1	i idii i	C5	'	soils; 10-30% deep clay loam over dark grey-brown clay soils.
		Swamp	N3G3	L	10-20% swamps with mostly wet, loam over yellow-grey clay.
		Swamp	14303	-	Main soils:
					Plains: Thick sand over clay - G3, Sand over acidic clay - G5
					and <u>Gradational dark clay loam</u> – C5 .
					Swamps: Wet clay loam - N3 and Thick sand over clay - G3.
NYB	0.4	Stony plain	B2B5	D	NYB Stony plains 10-30% bare calcrete.
NYI			B5	V	NYI Stony plains 10-30% bare calclere. NYI Stony plains with moderately shallow calcareous dark
NII	0.6	Stony plain		C	cracking clay on calcrete. 20-30% swamps with mostly wet,
		Swamp	N3M2	C	
					dark clay loam over dark clay; 10-30% poorly structured subsoils
					or deep cracking clay.
					Main soils:
					Stony plains: Shallow calcareous loam on calcrete - B2 and
					<u>Shallow dark clay loam on limestone</u> - B5 .
					Swamps: Wet clay loam - N3 and Deep friable gradational clay
					<u>loam</u> - M2 .
OFG	1.6	Low dune	11	٧	Low dunes with deep, strongly water repellent, bleached acid
		Swale	G3	L	sand; 10-30% bleached sand, over yellow-brown clay, or over
					poorly structured brown clay on calcrete.
					Main soils:
					Dunes: <u>Highly leached sand</u> - 11.
					Swales: Thick sand over clay - G3.
OHB	0.3	Dune	11H3	D	OHB High dunes with deep, strongly water repellent, acid,
		Stony rise	В3	М	bleached, siliceous sands; 10-30% shallow sand over red clay
OHD	0.1	Dune	11H3	D	on calcrete. <10% stony rises with very shallow sand over
		Stony rise	В3	M	calcreted calcarenite with shallow sand over calcarenite rises;
					10-30% shallow sand over red clay on calcrete or bare
					calcrete.
					OHD Low dunes with soils as above; <10% stony rises as above.
					Main soils:
					Dunes: Highly leached sand - 11 and Bleached siliceous sand -
					H3.
					Stony rises: Shallow sandy loam on calcrete - B3.
OKG	0.3	Dune	G3B7	V	OKG Low dunes and sandy rises with deep bleached sand,
			Н3		over brown clay; often on calcrete. 10-20% stony rises with very
		Stony rise	B3RR	L	shallow sand on calcrete, or bare calcrete. 10-20% swamps
		Swamp	N3G3	L	with mostly wet, sand over brown or grey clay; 10-30% peat.
OKK	0.0	Swale	G3N3	D	OKK Swales with often wet, deep sand over brown clay.
	0.0	377 010	00110		Main soils:
					Dunes: Thick sand over clay - G3, Sand over friable brown clay
					on calcrete - B7 and Bleached siliceous sand - H3 .
					Stony rises: Shallow sandy loam on calcrete - B3 and Rock or
					exposed calcrete - RR.
					Swamps: Wet clay loam - N3 and Thick sand over clay - G3.
					Swales: Thick sand over clay - G3 and Wet clay loam - N3.
				 	
PRa	1 /	Plain/sand	C3H3	D	Sand plains with deep well to mad Drained bloached silicacus
PBa	1.4	Plain/sand	G3H3	D	Sand plains with deep well to mod. Drained bleached siliceous
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow
PBa	1.4	-		M	sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30%
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30% shallow sandy loam over red clay on calcrete.
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30% shallow sandy loam over red clay on calcrete. Main soils:
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30% shallow sandy loam over red clay on calcrete. Main soils: Plains and sandy rises: Thick sand over clay - G3, Bleached
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30% shallow sandy loam over red clay on calcrete. Main soils: Plains and sandy rises: Thick sand over clay - G3, Bleached siliceous sand - H3 and Wet highly leached sand - 12.
PBa	1.4	rise	12		sand, mostly over brown clay. <10% stony rises with shallow sand over calcreted calcarenite, or bare calcrete; 10-30% shallow sandy loam over red clay on calcrete. Main soils: Plains and sandy rises: Thick sand over clay - G3, Bleached





PNA	I 0.1	District Assessed	H3I2	T-0	
PNA	2.1	Plain/sand rise	G3	D	Sand plains and rises with mostly deep bleached, neutral sands; often over yellow-brown clay, <10% swampy plains with dark
		Swampy	C5E3	М	cracking clay soils.
		plain	CJLJ	171	Main soils:
		pidiri			Plains and sandy rises: Bleached siliceous sand - H3, Wet highly
					leached sand - 12 and Thick sand over clay - G3.
					Swampy plains: Gradational dark clay loam - C5 and Brown or
					grey cracking clay - E3.
XRC	0.2	Swamp	N3	D	Swamps with wet dark, cracking clay soils with minor peats.
11110	0.2	o wamp	1 10		Main soils: Wet clay loam - N3.
XtC	0.1	Swamp	N1	D	XtC Peat swamps.
Xtf		Swamp	B5N3	V	Xtf Swamps with shallow, often wet, clay loam grading to clay
7111	0.0	Rise	B2B3	Ċ	on calcrete. Minor peat soils. 20-30% rises with shallow
		1130	DZBO		calcareous loam or siliceous sand over calcrete.
					Main soils:
					Swamps: Peaty soil - N1, Shallow dark clay loam on limestone -
					B5 and Wet clay loam - N3.
					Rises: Shallow calcareous loam on calcrete - B2 and Shallow
					sandy loam on calcrete - B3 .
XuC	0.6	Swamp	N3	D	XuC Swamps with mostly non-peaty, wet sandy soils. 10-30%
Xud		Swamp	N3	V	peat.
		Sandy rise	G3I2	L	Xud Non-peaty swamps with 20-30% sandy rises with deep sand
Xuf	1.5	Swamp	N3	V	over brown clay, or deep sand on coffee rock.
		Stony rise	B2B3	С	Xuf Swamps as for XuC above, with stony rises and/or very
		,	B5		shallow over calcrete.
					Main soils:
					Swamps: <u>Wet clay loam</u> - N3 .
					Sandy rises: Thick sand over clay - G3 and Wet highly leached
					<u>sand</u> - 12 .
					Stony rises: Shallow calcareous loam on calcrete - B2, Shallow
					sandy loam on calcrete - B3 and <u>Shallow dark clay loam on</u>
					<u>limestone</u> - B5 .
ZD-	0.0	Salt lake	N2	D	Salt lake with highly saline clay loam over clay, bare salt
					encrusted surface common; 10-30% water filled.
				1	Main soils: Wet saline clay loam - N2c.
ZE-	1.0	Salt lake	N2	V	Salt lakes as for ZD- . 10-20% lake margins with slightly less saline
		Lake margin	N2	L	dark clay loam on clay. <10% lunettes with deep calcareous
		Lunette	A6B2	M	clay loam grading to grey clay on marl, or shallow calcareous
					clay loam on calcrete.
					Main soils:
					Salt lakes: Wet saline clay loam - N2c.
					Lake margins: Wet saline clay loam - N2c
					Lunettes: <u>Gradational calcareous clay</u> - A6 and <u>Shallow</u>
					<u>calcareous loam on calcrete</u> - B2 .

PROPORTION codes assigned to Soil Landscape Unit (SLU) components:

D Dominant in extent (>90% of SLU)

V Very extensive in extent (60–90% of SLU)

E Extensive in extent (30–60% of SLU)

C Common in extent (20–30% of SLU)

L Limited in extent (10–20% of SLU)

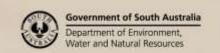
M Minor in extent (<10% of SLU)

Detailed soil profile descriptions:

- A6 <u>Gradational calcareous clay loam (Pedal Hypercalcic-Lithocalcic Calcarosol</u> on clayey subsoil) Calcareous loams to clay loams grading into brown-red clay. Often rubbly.
- Shallow calcareous sandy loam on calcrete (Petrocalcic Calcarosol)

 Up to 40 cm calcareous loamy sand to sandy loam with variable calcrete rubble overlying calcreted calcarenite rises.
- B3 Shallow sandy loam on calcrete (Petrocalcic Rudosol)

 Medium thickness non-calcareous sandy loam, often having a slight clay increase with depth, over calcreted calcarenite shallower than 50 cm rises.





B4 Red sandy loam over calcrete (Petrocalcic, Red Dermosol)

Medium thickness red sandy loam grading to friable red clay loam over calcreted calcarenite within 50 cm - rises.

B5 <u>Shallow dark clay loam on limestone (Petrocalcic, Black Dermosol)</u>

Black clay loam to light clay over calcreted limestone at shallow depth, grading to highly calcareous clay - flats.

B6 Shallow sandy loam over red-brown clay on calcrete (Petrocalcic, Red Kandosol)

Medium thickness sandy loam with slight ironstone gravel overlying a weakly structured reddish brown sandy clay on calcarenite within 50 cm - rises.

B7 Shallow sand over sandy clay on calcrete (Petrocalcic, Brown Chromosol)

Medium thickness sand overlying brown friable sandy clay to clay on limestone or calcreted sandy clay within 50 cm - flats.

B8 Shallow sand on calcrete (Petrocalcic, Bleached-Leptic Tenosol)

Thick bleached sand over calcreted calcarenite within 50 cm - rises.

C5 Gradational dark clay loam (Calcic-Hypercalcic Brown-Grey-Black Dermosol-Calcarosol)

Dark clay loam over abundant 'soft lime'. > 10% carbonate is the cut off between this and M2 soils.

- **E1** Black cracking clay (Black Vertosol)
- **E3** Brown or grey cracking clay (Brown-Grey Vertosol)

G3 Thick sand over clay (Hypercalcic, Brown Sodosol/ Chromosol)

Thick bleached sand with an organically darkened surface abruptly overlying a massive to coarsely structured brown to reddish yellow sandy clay to clay, calcareous with depth - rises.

G5 Sand over acidic clay (Sandy Brown Kurosol)

Sandy texture contrast soil with a friable brown strongly acidic clayey to clay loamy subsoil. Very acidic soil; incipient Bh horizons; moderate depth topsoils. Some with ironstone.

H3 Deep bleached sand (Basic, Arenic, Bleached-Orthic Tenosol)

Grey sand over a very thick bleached sand grading to yellow sand continuing below 100 cm.

11 Highly leached sand (Fragic, Pipey, Aeric Podosol)

Grey sand with a very thick bleached A2 layer, over dark brown and yellow massive soft to semi-hard clayey sand (coffee rock), grading to softer yellow and brown sand to sandy clay loam from about 80 cm.

Wet highly leached sand (Fragic, Humic, Aquic Podosol)

Grey sand with a thick bleached A2 horizon, overlying a thin to thick layer of coffee rock, grading to pale brown sand sharply overlying a grey, brown and yellow mottled sandy clay loam to light clay.

M2 <u>Deep friable gradational clay loam (Red-Brown-Grey- Black Dermosol)</u>

Deep well structured red clay loamy soil.

N1 Peat (Organosol)

Peaty soil

N2c Wet saline clay loam (Dermosolic, Salic Hydrosol)

Medium thickness dark grey to black clay loam to clay grading to well-structured dark grey clay with minor carbonates and a watertable within 100 cm.

N3 Seasonally waterlogged, non to marginally saline equivalents of soils listed above, viz.:

N3c Wet G3

N3d Wet B5

N3e Wet B7

RR Bare rock

WW Water

Further information: DEWNR Soil and Land Program

