HAW Hawdon Land System

Area:	88.5 km ²						
Landscape:	Swampy to wet, seasonally inundated lacustrine plains, east of Robe, often with saline, sometimes shallow, soils on calcreted lake sediments.						
Annual rainfall:	655 – 710 mm average						
Geology:	Holocene lacustrine or playa sediments and Late Pleistocene clayey, shelly and calcreted sediments of the Glanville Formation.						
Main soils:	 N2 (62%) Saline soil (Salic-Hypersalic Hydrosol) N3 (10%) Wet soil (non to moderately saline) (Sodosolic-Calcarosolic-Dermosolic Hydrosol) 						
Minor soils:	 N1 (7%) Peaty soil (Organosol) WW (7%) Water B5 (5%) Shallow dark clay loam on limestone (Petrocalcic Black-Grey Dermosol) 						
Summary:	The soils are either saline or wet. Land use here is restricted to summer grazing or mineral extraction activities from the lake sediments.						

Soil Landscape Unit summary: Hawdon Land System (HAW)

SLU	% of area	Component	Main soils	Prop#	Notes
NBu	14.5	Plain	N2B5	V	Plains with shallow, mostly wet, dark cracking clay over
		Salt pan	N2	С	calcreted marl or lacustrine sediments. 20-30% salt pans with
		Lunette	A8	L	highly saline cracking clay soils, or occasionally inundated. 10-20% lunettes with gypsic calcareous grey clay loam, over clay or on calcrete. Main soils:
					Plains: Wet saline clay loam - N2c and Shallow dark clay
					loam on limestone - B5
					Salt pans: <u>Wet saline clay loam</u> - N2c . Lunettes: Gypseous calcareous loam – A8 .
VoP	0.8	Flat	A1B3	V	Flats with shelly calcareous sand grading to sandy loam; or
VOP	0.0	Stony rise	B3B6	V I	shallow sandy loam on calcrete. Minor sand over grey clay
		310119 1130	0000	L	on flats. 10-20% stony rises with sandy loam over red clay on
					calcrete.
					Main soils:
					Flats: Highly calcareous sandy loam - A1 and Shallow loam
					on calcrete - B3.
					Stony rises: Shallow loam on calcrete - B3 and Shallow sandy
					loam over red-brown clay on calcrete - B6 .
VpC	0.2	Salty	N2	D	Swamps with wet saline dark clay loam soils.
		swamp			Main soils: <u>Wet saline clay loam</u> - N2c .
XtC	7.4	Swamp	N1A7	D	Peat swamps or with calcareous dark loam over clay on marl. 10-30% of area is; often wet, non-peaty, dark loam over dark clay. Main soils: <u>Peaty soil</u> – N1 and <u>Calcareous clay loam on marl</u> - A7 .
ZA-	0.3	Plain	N1B3	D	Moderately saline lacustrine plain with peaty soils or shallow sandy loam over calcrete. 10-30% saline wet soils. Main soils: <u>Peaty soil</u> – N1 and <u>Shallow loam on calcrete</u> - B3 .





ZD-	32.3	Salt lake	N2	D	Lake bed with bare salt crust. Highly saline clay loamy soils. 10-30% inundated. Main soils: <u>Wet saline clay loam</u> - N2c .
ZE-	31.5	Lake margin	N2	D	Lake margin with loamy wet, saline soils; occasionally non- saline or peaty. Main soils: <u>Wet saline clay loam</u> - N2c .
ZP-	1.5	Lagoonal depression	N2	D	Lagoonal depression with dark, wet, mostly highly saline clay loam soils. Main soils: <u>Wet saline clay loam</u> - N2c .
ZX-	11.4	Lagoonal depression	N2	V	Lagoonal depression as above; 20-30% lunettes with shallow loam on calcrete or deep, calcareous, dark grey, loam over
		Lunette	B3A7	C	clay loam on marl. Main soils: Lagoonal depressions: <u>Wet saline clay loam</u> - N2c. Lunettes: <u>Shallow loam on calcrete</u> - B3 and <u>Calcareous</u> <u>clay loam on marl</u> - A7.

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:

- A1 <u>Highly calcareous sandy loam (Supravescent Calcarosol)</u> Deep to moderate depth carbonate dominant soils. Loamy sand to sandy loam over sandy loam to sandy clay loam. Carbonate dominates the soil profile as a whole, however, the surface soil may not be carbonate dominant, but must contain 30% or more carbonate.
- A7 <u>Calcareous clay loam on marl (Marly Calcarosol)</u> Dark calcareous clay with a marly subsoil (often saline in Upper SE). Often with shells and a peaty surface.
- A8 <u>Gypseous calcareous loam (Gypseous Calcarosol)</u> Calcareous soil with a Gypsic horizon) (>20% visual gypsum in a horizon which is at least 10cm thick). Found on lunettes, flats, etc.
- **B3** <u>Shallow sandy loam on calcrete (Petrocalcic Rudosol)</u> Medium thickness non calcareous sandy loam, often having a slight clay increase with depth, over calcreted calcarenite shallower than 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** <u>Shallow sandy loam over red-brown clay on calcrete (Petrocalcic, Red Kandosol)</u> Medium thickness sandy loam with slight ironstone gravel overlying a weakly structured reddish brown sandy clay on calcarenite within 50 cm - rises.
- N1 Peat (Organosol) Peaty soil
- N2c <u>Wet saline clay loam (Dermosolic, Salic Hydrosol)</u> Medium thickness dark grey to black clay loam to clay grading to well-structured dark grey clay with minor carbonates and a water table within 100 cm.

Further information: DEWNR Soil and Land Program



