THK Theakstones Land System

Area: 164.4 km²

Landscape: Undulating coastal land formed on Bridgewater Formation Calcarenites which outcrop

extensively, partly covered by calcareous and siliceous Semaphore Sands as dunes and spreads. A granitic intrusion (partly calcrete capped) protrudes through the calcarenite

forming the West Point headland.

Annual rainfall: 375 - 550 mm average

Main soils: Russell - B1 (Supravescent, Petrocalcic, Lithocalcic Calcarosol)

Medium thickness highly calcareous loamy sand to sandy loam containing increasing

amounts of rubble with depth, over sheet calcrete at less than 50 cm.

<u>Semaphore</u> - **H1a/H3** (Shelly Rudosol)

Very thick sand comprising mixed shell and quartz grains.

Shallow Semaphore - **H1b** (Petrocalcic, Shelly Rudosol)

Thick shell sand over calcrete between 50 and 100 cm

Minor soils: Calcrete / Skeletal - B2/L1 (Petrocalcic / Lithic, Lithocalcic Calcarosol)

Thin calcareous sandy loam to sandy clay loam over rubbly or sheet calcrete (B2), or

basement granite (L1).

Summary: Undulating calcrete country with shallow stony soils, extensively overlain by deep coastal

sands as medium to high dunes and lower sand spreads. There is a large granite outcrop at

the southern-most point of the System. The land is all in conservation park.

Soil Landscape Unit summary: 7 Soil Landscape Units (SLUs) mapped in the Theakstones Land System:

SLU	% of area	Component	Main soils	Prop#	Notes
A-kg	1.0	Rock rises	Calcrete / skeletal	D	Rocky basement rock rises, mostly capped by calcrete.
MeC	47.4	Undulating stony rises	Russell	D	Shallow stony calcareous sandy loam
WFC	0.2	High coastal dunes	Semaphore	D	Coastal dunes of deep unstable sand.
WFL	33.5	High coastal dunes on frontal slopes	Semaphore	D	
WFc	7.9	High bare coastal dunes	Semaphore	D	
WX-	2.8	Frontal slopes / cliffs:			Frontal (sea facing) slopes and cliffs of
		- sand spreads and dunes	Semaphore	E	calcarenite with variable sand dune / sand
		- rocky	Russell	E	spread cover.
WY-	7.2	Rocky frontal slopes / cliffs with some sand	Russell / Semaphore	D	

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)

Further information: DEWNR Soil and Land Program



