KRO Kromelite Land System

Area: 46.4 km²

Landscape: Sand plain east of Mt. Gambier with mostly deep sand on the plains and a few low rises with

deep sand over brown clay soils. Occasional outcrops of calcarenite occur.

Annual rainfall: 745 – 755 mm average

Geology: Pleistocene Coomandook Formation limestone and sandy calcareous sediments.

Main soils: I1 (53%) Highly leached sand (Aeric Podosol)

Minor soils: H3 (19%) Bleached siliceous sand (sandy Bleached Tenosol)

(14%) Bleached siliceous sand (sandy Bleached Tenosol)(9%) Bleached sand over sandy clay loam (sandy Brown-Red Chromosol)

G3 (5%) Thick sand over clay (sandy Brown-Red Chromosol-Sodosol)

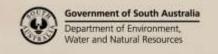
Summary: Soils are well-drained sands mostly. Water repellence and acidity are the main land use

constraints, with low fertility and wind erosion potential also requiring careful management.

SLU	% of area	Component	Main soils	Prop#	Notes
MRB	3.5	Rise	G3	D	MRB Gently undulating calcreted former beach ridge with
MRC	2.1	Rise	G3	D	very shallow red and brown loam/red clay soils, <10% deep leached sand or sand/clay rises. MRC As above undulating rises. Main soils: Thick sand over clay - G3.
OFC	0.8	Dune	I1	D	OFC Deep moderately to highly leached siliceous sands on
OFD	1.8	Low dune	I1	D	dunes. OFD As above, low dunes. Main soils: Highly leached sand - I1 .
PBA	91.7	Plain	I1	D	Sand plain with well-drained, deep leached siliceous sands. Main soils: Highly leached sand - I1.

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:

- 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.
- 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.

Further information: <u>DEWNR Soil and Land Program</u>

