

Project Name: Victorian Beach Ridge Studies
Project Code: VBR **Site ID:** A1071 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	G. Blackburn	Locality:	
Date Desc.:	04/08/69	Elevation:	107 metres
Map Ref.:		Rainfall:	250
Northing/Long.:	142.436666666667	Runoff:	Rapid
Easting/Lat.:	-35.3761111111111	Drainage:	Moderately well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Rolling rises 9-30m 10-32%	Pattern Type:	Plain
Morph. Type:	Ridge	Relief:	24 metres
Elem. Type:	Dune	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled Calcic Yellow Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

No analytical data are available but confidence is fair.

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded
Tall Strata - Tree mallee, , . *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.02 m	Brown (7.5YR5/4-Moist); ; Sandy loam; Firm consistence; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Clear change to -
0.02 - 0.1 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Firm consistence; 0-2%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Sharp, Irregular change to -
0.1 - 0.14 m	Yellowish red (5YR5/8-Moist); ; Sandy clay loam; Moderate grade of structure, 10-20 mm, Columnar; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;
0.14 - 0.2 m	Yellowish red (5YR5/8-Moist); , 7.5YR66; Sandy medium clay; Moderate grade of structure, 20-50 mm, Columnar; Very firm consistence; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations;
0.2 - 0.3 m	Reddish yellow (7.5YR7/6-Moist); , 5YR66; Sandy medium clay; 20-50 mm, Columnar; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
0.3 - 0.4 m	Reddish yellow (7.5YR8/6-Moist); , 5YR68; Sandy medium clay (Light); 10-20 mm, Columnar; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
0.4 - 0.5 m	Reddish yellow (7.5YR8/6-Moist); , 5YR78; Light clay; 10-20 mm, Columnar; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
0.5 - 0.6 m	Pink (7.5YR8/4-Moist); , 5YR68; Sandy clay loam; 20-50 mm, Columnar; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations;
0.6 - 0.72 m	Pink (7.5YR8/4-Moist); , 5YR68; , 2.5YR58; Sandy clay loam (Heavy); Strong grade of structure, Angular blocky; Very many (50 - 100 %), Calcareous, , Soft segregations;
0.72 - 0.9 m	Reddish yellow (5YR7/8-Moist); , 5YR68; , 7.5YR84; Sandy clay loam; Strong grade of structure, 20-50 mm, Angular blocky; Very many (50 - 100 %), Calcareous, , Soft segregations;
0.9 - 1.05 m	Reddish yellow (5YR7/8-Moist); , 7.5YR86; , 5YR68; Sandy medium clay (Light); Strong grade of structure, Subangular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations;

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1.05 - 1.2 m	Reddish yellow (5YR7/8-Moist); , 7.5YR84; , 7.5YR86; Sandy clay loam (Heavy); Strong grade of structure, Subangular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations;
1.2 - 1.35 m	Reddish yellow (5YR7/8-Moist); , 7.5YR86; , 7.5YR84; Sandy clay loam; Strong grade of structure, Subangular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations;
1.35 - 1.5 m	Reddish yellow (5YR7/8-Moist); , 5YR68; , 7.5YR86; Sandy clay loam; Strong grade of structure, Subangular blocky; Very firm consistence; Very many (50 - 100 %), Calcareous, , Soft segregations;
1.5 - 1.62 m	Reddish yellow (5YR6/8-Moist); , 5YR78; , 7.5YR84; Sandy clay loam; Strong grade of structure, Subangular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations;
1.62 - 1.64 m	Reddish yellow (5YR6/8-Moist); , 7.5YR86; Sandy loam (Heavy); Strong grade of structure, Subangular blocky; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 5 (pH meter); Clear change to -
1.64 - 1.69 m	Reddish yellow (7.5YR8/6-Moist); , 7.5YR84; , 5YR68; Sandy loam; Moderate grade of structure, Angular blocky; Very firm consistence; Field pH 5 (pH meter); Clear change to -
1.69 - 1.74 m	Reddish yellow (5YR6/8-Moist); , 2.5YR68; , 7.5YR86; Sandy clay loam; Massive grade of structure; Very firm consistence;
1.74 - 1.8 m	Reddish yellow (5YR6/8-Moist); , Sandy medium clay (Light); , Angular blocky; Massive grade of structure; Very firm consistence;
1.8 - 1.95 m	Reddish yellow (5YR6/8-Moist); , 2.5YR58; , 5YR42; Sandy clay loam (Light); , Angular blocky; Strong consistence;
1.95 - 2.05 m	Reddish yellow (5YR6/8-Moist); , 2.5YR58; , 5YR42; Sandy clay loam (Heavy); , Angular blocky; Massive grade of structure; Strong consistence;
2.05 - 2.35 m	Reddish yellow (5YR6/8-Moist); , 2.5YR58; , 5YR42; Sandy loam (Heavy); , Angular blocky; Massive grade of structure; Strong consistence; Field pH 4 (pH meter);
2.35 - 2.5 m	Reddish yellow (5YR6/8-Moist); , 5YR42; Sandy loam; , Angular blocky; Massive grade of structure; Strong consistence;

Morphological Notes

Observation Notes

Fe-Mn OXIDE PICKED OUT WITH MAGNET: EFFERVESCENCE WITH PEROXIDE: SMALL CONCRETIONNS <1 MM IN SIZE:

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.02									
0.02 - 0.1									
0.1 - 0.14									
0.14 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.5 - 0.6									
0.6 - 0.72									
0.72 - 0.9									
0.9 - 1.05									
1.05 - 1.2									
1.2 - 1.35									
1.35 - 1.5									
1.5 - 1.62									
1.62 - 1.64									
1.64 - 1.69									
1.69 - 1.74									
1.74 - 1.8									
1.8 - 1.95									
1.95 - 2.05									
2.05 - 2.35									
2.35 - 2.5									

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02												
0.02 - 0.1												
0.1 - 0.14												
0.14 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.72												
0.72 - 0.9												
0.9 - 1.05												
1.05 - 1.2												
1.2 - 1.35												
1.35 - 1.5												
1.5 - 1.62												
1.62 - 1.64												
1.64 - 1.69												
1.69 - 1.74												
1.74 - 1.8												
1.8 - 1.95												
1.95 - 2.05												
2.05 - 2.35												
2.35 - 2.5												

Depth	COLE	Gravimetric/Volumetric Water Contents				K sat	K unsat
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Laboratory Analyses Completed for this profile