

**Project Name:** Cooloola  
**Project Code:** Cooloola      **Site ID:** B875      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	C.H. Thompson	<b>Locality:</b>	North side of road on crest YB sandhill just east of YB/LbG sands bdy on road.
<b>Date Desc.:</b>	13/07/76	<b>Elevation:</b>	45 metres
<b>Map Ref.:</b>	Sheet No. : 9545-IV    1:50000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	153.1099261	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-26.10363179	<b>Drainage:</b>	Rapidly drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	15 metres
<b>Elem. Type:</b>	Dune	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Podosol	<b>Principal Profile Form:</b>	Uc3.21
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Podzol
Confidence level not specified		

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A11	0 - 0.03 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Moist); , 10YR52; Sand; Single grain grade of structure; Loose consistence; Field pH 6 (Raupach);
A12	0.03 - 0.1 m	Greyish brown (10YR5/2-Moist); , 10YR31; Sand; Single grain grade of structure; Weak consistence; Field pH 5.5 (Raupach);
A13	0.1 - 0.15 m	Brown (10YR5/3-Moist); , 10YR51; , 10YR52; Sand; Single grain grade of structure; Very weak consistence; Field pH 5.8 (Raupach);
A2	0.15 - 0.2 m	Light yellowish brown (10YR6/4-Moist); Pale brown (10YR6/3-Dry); , 10YR73; Sand; Single grain grade of structure; Very weak consistence; Field pH 6 (Raupach);
A2	0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); Pale brown (10YR6/3-Dry); , 10YR73; Sand; Single grain grade of structure; Very weak consistence;
B1	0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); , 10YR64; , 10YR44; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.2 (Raupach);
B21	0.4 - 0.6 m	Yellowish brown (10YR5/4-Moist); , 10YR44; , 10YR64; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.3 (Raupach);
B21	0.6 - 0.8 m	Dark yellowish brown (10YR4/4-Moist); Light yellowish brown (10YR6/4-Moist); , 10YR44; , 10YR64; Sand; Single grain grade of structure; Very weak consistence;
B3	0.8 - 0.9 m	Brownish yellow (10YR6/5-Moist); , 10YR54; , 10YR64; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.4 (Raupach);
B3	0.9 - 1.05 m	Brownish yellow (10YR6/5-Moist); , 10YR54; , 10YR64; Sand; Single grain grade of structure; Very weak consistence;
C	1.05 - 1.2 m	Brownish yellow (10YR6/5-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.5 (Raupach);
C	1.2 - 1.5 m	Brownish yellow (10YR6/5-Moist); ; Sand; Single grain grade of structure; Very weak

**Morphological Notes**

A11      Rain washed - discrete OM.

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A12	Diffuse OM and root and worm channels.
A13	Diffuse OM patches.
A2	Few paler patches.
A2	A2 has a scattered array of bleached paler patches, very random distribution through A2,B2&B3 horizons - prob. due to earlier root lines.....
B1	Trans hummate patches few.
B21	Mod. Hummate patches.
B21	Worm sample - large worm at 70cm.

**Observation Notes**

Parent material: Siliceous Sand. Landform: Sand dune (young) wing crest. Veg: Woodland. A very soft soil - surface is loose  
- A horizons are held together by root mass, B horizons are very soft to barely coherent, C are virtually loose.

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Exchangeable Cations K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.03	5.6H	<0.03B								
0.03 - 0.1	4.8H	<0.03B	<0.1K	<0.1					1.1F	
0.1 - 0.15										
0.15 - 0.2										
0.2 - 0.3	5.2H	<0.03B								
0.3 - 0.4	5.3H	<0.03B								
0.4 - 0.6	5.2H	<0.03B								
0.6 - 0.8										
0.8 - 0.9										
0.9 - 1.05	5H	<0.03B								
1.05 - 1.2										
1.2 - 1.5	5H	<0.03B								

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**Laboratory Analyses Completed for this profile**

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15J1	Effective CEC
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded