

Project Name: Cooloola
Project Code: Cooloola **Site ID:** B864 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	51m NW downslope of Peg 0. Wolvi 155553.
Date Desc.:	07/07/75	Elevation:	42 metres
Map Ref.:	Sheet No. : 9445-I 1:50000	Rainfall:	No Data
Northing/Long.:	152.9710855	Runoff:	No Data
Easting/Lat.:	-26.10642085	Drainage:	Rapidly 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:	No Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	16 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	7 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy3.41
		Great Soil Group:	Soloth

Site Disturbance:

Vegetation: Low Strata - , 1.01-3m, . *Species includes - Hakea species
 Mid Strata - , 6.01-12m, . *Species includes - Casuarina littoralis, Tristania sauveolens, Angophora intermedia,
 Melaleuca
 quinquenervia
 Tall Strata - , 12.01-20m, . *Species includes - Eucalyptus acmenoides, Angophora costata

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 10YR41; , 10YR53; Sandy loam; Single grain grade of structure; Massive grade of structure; Very firm consistence; Field pH 5.8 (Raupach); ManyDiffuse change to -
A12	0.1 - 0.15 m	Grey (10YR5/1-Moist); , 7.5YR44; Sandy loam; Single grain grade of structure; Massive grade of structure; Very firm consistence; Field pH 5.5 (Raupach); FewGradual change to -
A2	0.15 - 0.2 m	Grey (10YR6/1-Moist); , 10YR53; , 7.5YR44; Sandy clay loam; Single grain grade of structure; Massive grade of structure; Very firm consistence; Field pH 5 (Raupach); Wavy change to -
A2	0.2 - 0.3 m	Grey (10YR6/1-Moist); Brown (7.5YR4/4-Moist); , 10YR53; , 7.5YR44; Sandy clay loam; Single grain grade of structure; Massive grade of structure; Strong consistence; Field pH 5 (Raupach); Wavy change to -
B1	0.3 - 0.35 m	Light brownish grey (10YR6/2-Moist); , 10YR54; Light medium clay; 100-200 mm, Prismatic; Very strong consistence; Field pH 5 (Raupach); Diffuse change to -
B2	0.35 - 0.4 m	Grey (10YR5/1-Moist); , 10YR56; Medium heavy clay; 100-200 mm, Prismatic; Very strong consistence; Field pH 5.2 (Raupach); Diffuse change to -
B3	0.4 - 0.55 m	Pale red (2.5YR6/2-Moist); , 7.5YR56; Medium clay; Single grain grade of structure; Very strong consistence; Field pH 6 (Raupach); Diffuse change to -
C	0.55 - 0.6 m	Light greenish grey (5G7/1-Moist); , 7.5YR56; , 5Y61; Single grain grade of structure; Massive grade of structure; Very strong consistence; Field pH 6.2 (Raupach);

Morphological Notes

A11	Many grass roots, few small worms. LG patches mainly in upper, and LB patches mainly in lower 5cm.
A12	Few grass roots, occasional small worm.
A2	Lower boundary over 28/33cm. A2 bleached dry. Fe sandstone (10-25mm).
B1	Moderate prismatic structure extends through B1 and B2 horizons, prisms have brownish grey faces or grey faces.

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B3 Very wet - very little evidence of aggregates.
C Weathered sandstone.

Observation Notes

Parent material: Triassic feldspathic sandstone. Landform: Low convex hill - upper slope. Micro-relief: Small sink holes (50cm diameter) and mounds due to crayfish. Veg: Open Grassy Forest. GSG: Gleyed Soloth.

Site Notes

State Forest of indigenous hardwoods - management natural revegetation with fire protection, controlled burning 1yr in 3, controlled cutting.

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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 - 0.1	5.5H	<0.03B	0.1K	0.7	0.1	0.1	5.5D		
0.1 - 0.15	5.5H	<0.03B						6.6F	
0.15 - 0.2	5.5H	<0.03B							
0.2 - 0.3	5.8H	<0.03B							
0.3 - 0.35	5.9H	<0.03B	0.1K	4.7	0.2	0.3	9.8D	15.2F	
0.35 - 0.4	6H	<0.03B	0.1K		0.2	0.4		16F	
0.4 - 0.55	6.1H	<0.03B							
0.55 - 0.6	6.3H	<0.03B							

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 - 0.1		0.9E	3B		0.045B							
0.1 - 0.15												
0.15 - 0.2												
0.2 - 0.3		0.35E	4B		0.026B							
0.3 - 0.35		0.44E	2B		0.045B							
0.35 - 0.4		0.36E	1B		0.035B							
0.4 - 0.55												
0.55 - 0.6		0.08E	3B		0.011B							

[illegible]

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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_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15J1	Effective CEC
15L1	Base saturation percentage (BSP)
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
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
8A1	Total organic carbon/total nitrogen ratio
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)