Project Name: Cooloola
Project Code: Cooloola **Site ID:** B877 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	**Locality:**	In wet depression 70m N of 275m Peg of reference line.
Date Desc.:	16/09/76	**Elevation:**	30 metres
Map Ref.:	Sheet No. : 9445-I 1:50000	**Rainfall:**	No Data
Northing/Long.:	152.9674313	**Runoff:**	No Data
Easting/Lat.:	-26.10647073	**Drainage:**	Poorly 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:	No Data	**Relief:**	17 metres
Elem. Type:	Drainage depression	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dg2.81
Great Soil Group: Humic gley

Site Disturbance:

Vegetation: Low Strata - , 1.01-3m, Closed or dense. *Species includes - Banksia robur
Mid Strata - , , . *Species includes - Melaleuca quinquenervia, Eucalyptus robusta, Tristania sauveolens

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); , 10YR62; , 10YR72; Clay loam; Firm consistence; Field pH 5.2 (Raupach); ManyDiffuse change to -
A12	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); , 10YR62; , 10YR72; Loam; Field pH 5.6 (Raupach); Many
A12	0.2 - 0.3 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Moist); , 10YR62; , 10YR72; Diffuse change to -
A13	0.3 - 0.45 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Moist); ; Clay loam, sandy; Field pH 5.8 (Raupach); FewDiffuse change to -
A14	0.45 - 0.6 m	Grey (10YR5/1-Moist); , 10YR62; , 10YR72; Sand; Weak consistence;
A14	0.6 - 0.7 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Moist); , 10YR62; , 10YR72; Weak consistence; Field pH 5.8 (Raupach); Diffuse change to -
A2	0.7 - 0.9 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/2-Moist); ; Sand; Loose consistence; Field pH 5.8 (Raupach); Clear change to -
B21	0.9 - 1.2 m	Light grey (10YR7/1-Moist); , 2.5YR56; Sandy light medium clay; Firm consistence; Field pH 5.6 (Raupach); Diffuse change to -
B21	0.9 - 1.2 m	Light grey (10YR7/1-Moist); , 2.5YR56; Sandy light medium clay; Firm consistence; Field pH 5.6 (Raupach); Diffuse change to -
B22	1.2 - 1.5 m	Light grey (10YR7/1-Moist); , 2.5YR56; , 7.5YR56; Sandy medium clay; Firm consistence; Field pH 5.5 (Raupach);
B22	1.2 - 1.5 m	Light grey (10YR7/1-Moist); , 2.5YR56; , 7.5YR56; Sandy medium clay; Firm consistence; Field pH 5.5 (Raupach);
B22	1.5 - 1.7 m	Light grey (10YR7/1-Moist); (7.5YR5/6-Moist); , 2.5YR56; , 7.5YR56; Sandy medium clay; Firm consistence; Diffuse change to -
B22	1.5 - 1.7 m	Light grey (10YR7/1-Moist); (7.5YR5/6-Moist); , 2.5YR56; , 7.5YR56; Sandy medium clay; Firm consistence; Diffuse change to -

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B3	1.7 - 1.8 m	Light grey (10YR7/2-Moist); , 2.5YR58; Sandy light medium clay; Firm consistence; Field pH 5.5 (Raupach);
B3	1.8 - 2.1 m	Light grey (10YR7/2-Moist); , 2.5YR58; Firm consistence; Diffuse change to -
C	2.1 - 2.4 m	Red (2.5YR5/8-Moist); Light grey (10YR7/2-Moist); ; Sandy clay loam; Field pH 5.5 (Raupach);

Morphological Notes

A11	Many roots, much root fibre. Surface locally appears to be hardsetting dry.
A12	Many roots. Sticky.
A12	OL (Sy) -> OSL at 20cm.
A13	Few roots. Sticky.
A2	Thixotropic wet. Perched water table appears to have macro-prisms.
B22	Soil formed in sediment to at least 120cm and probably to 210cm - apparently weathered sandstone below 2m.
B22	Soil formed in sediment to at least 120cm and probably to 210cm - apparently weathered sandstone below 2m.
B3	SCL weathered from sandston.
C	Weathered sandstone in situ.

Observation Notes

Parent material: Local sandy alluvium over feldspathic sandstone. Landform: Drainage line head. Micro-relief: Sl swamp hummock 1-2m across with DIL of 30cm. Veg: Open Woodland.

Site Notes

Either Dg2.41 orDg2.81 depending on macro-prismatic structure of B horizon. Margins of drainage line appear to be hard-setting wetter sites are probably not ie Dg4.81 = Beewah 9.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5H	0.06B	0.3K	0.8	0.1	0.2	7.2D		8.6F	
0.1 - 0.2	4.9H	<0.03B	0.1K	0.3	0.1	0.1	4.6D		5.2F	
0.2 - 0.3										
0.3 - 0.45	5H	<0.03B								
0.45 - 0.6										
0.6 - 0.7	5.1H	<0.03B	0.1K	0.1	<0.1	0.1	0.7D		1.1F	
0.7 - 0.9	5.2H	<0.03B								
0.9 - 1.2	5H	<0.03B	<0.1K	1.6	0.1	0.2	3.6D		5.5F	
1.2 - 1.5										
1.5 - 1.7	5H	<0.03B	0.1K	1.3	0.1	0.2	2.4D		4F	
1.7 - 1.8										
1.8 - 2.1										
2.1 - 2.4	5.1H	<0.03B	0.1K	1.6	0.1	0.2	3.3D		5.1F	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.23E	9B		0.115B				71I		16	8
0.1 - 0.2		1.14E	6B		0.065B				77I		14	6
0.2 - 0.3												
0.3 - 0.45		0.46E	2B		0.024B				81I		12	5
0.45 - 0.6												
0.6 - 0.7		0.14E	2B		0.013B				87I		9	4
0.7 - 0.9		0.03E	2B		0.005B							
0.9 - 1.2		0.04E	1B		0.013B				75I		4	21
1.2 - 1.5												
1.5 - 1.7		0.04E	2B		0.01B				79I		3	16
1.7 - 1.8												
1.8 - 2.1												
2.1 - 2.4		0.04E	1B		0.008B				76I		2	20

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.45										
0.45 - 0.6										
0.6 - 0.7										
0.7 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.7										
1.7 - 1.8										
1.8 - 2.1										
2.1 - 2.4										

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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 recordede
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)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded