Project Name: **Cooloola**
Project Code: **Cooloola** **Site ID:** **B859** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By:	C.H. Thompson	**Locality:**	2m S, 0.5m E of litter bin 25. 4m SE of strangler fig butt.
Date Desc.:	21/11/74	**Elevation:**	135 metres
Map Ref.:	Sheet No. : 9545-IV 1:50000	**Rainfall:**	No Data
Northing/Long.:	153.1052692	**Runoff:**	No Data
Easting/Lat.:	-26.04759753	**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:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	60 metres
Elem. Type:	Dune	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Podosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Uc2.34
Great Soil Group: Humus podzol

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - Unable to identify species, Unable to identify species
Mid Strata - , 20.01-35m, . *Species includes - Unable to identify species
Tall Strata - , >35.01m, . *Species includes - Ficus species

Surface Coarse Fragments:

Profile Morphology

A00	0 - 0.01 m	; ;
A11	0.01 - 0.11 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach); FewDiffuse change to -
A12	0.11 - 0.21 m	Greyish brown (10YR5/2-Moist); , 10YR31; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.8 (Raupach); Few
A12	0.21 - 0.31 m	Greyish brown (10YR5/2-Moist); , 10YR31; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.8 (Raupach); Few
A12	0.31 - 0.41 m	Greyish brown (10YR5/2-Moist); , 10YR31; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.5 (Raupach); Few
A13	0.41 - 0.51 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Weak consistence; Field pH 6.2 (Raupach); ManyDiffuse change to -
A14	0.51 - 0.61 m	Greyish brown (10YR5/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.8 (Raupach);
A14	0.61 - 0.76 m	Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 6.8 (Raupach); Diffuse change to -
A21	0.76 - 0.91 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 7 (Raupach);
A21	0.91 - 1.21 m	Light grey (10YR7/1-Moist); Light brownish grey (10YR6/2-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 7 (Raupach);
A21	1.21 - 1.51 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 7 (Raupach);
A21	1.51 - 1.81 m	Light brownish grey (10YR6/2-Moist); Light grey (10YR7/1-Moist); ; Sand; Single grain grade of structure; Very weak consistence; Field pH 7 (Raupach);

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A22	1.81 - 2.11 m	White (10YR8/1-Moist); (10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A22	2.11 - 2.41 m	White (10YR8/1-Moist); (10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A22	2.41 - 2.71 m	White (10YR8/1-Moist); (10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A22	2.71 - 3.01 m	White (10YR8/1-Moist); (10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A23	3.01 - 3.31 m	(10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A23	3.31 - 3.61 m	(10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A23	3.61 - 3.91 m	(10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach);
A23	3.91 - 4.21 m	(10YR9/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 7 (Raupach); Clear change to -
B21	4.21 - 4.51 m	Dark greyish brown (10YR4/2-Moist); Very dark brown (10YR2/2-Moist); , 10YR21; Sand; Single grain grade of structure; Firm consistence; Field pH 5.8 (Raupach);
B22	4.51 - 4.81 m	Black (10YR2/1-Moist); , 5YR44; Sand; Single grain grade of structure; Field pH 5.6 (Raupach);
B23	4.81 - 5.11 m	Very dark brown (10YR2/2-Moist); ; Sand; Single grain grade of structure; Field pH 5.5 (Raupach);
B23	5.11 - 5.41 m	Very dark brown (10YR2/2-Moist); ; Sand; Single grain grade of structure;

Morphological Notes

A00	Leaf litter virtually all Ficus leaves.
A11	Discrete OM, sl roots. Surface 0 -0.05m is looser than 0.05-0.10m but no other really apparent difference.
A12	Worm casts 0.05 - 0.10m diameter. l roots.
A12	0 - 0.4m is possibly infill of sand from dune slopes and darker 0.4-0.5m old A1.
A13	Many roots.
B21	Soft becoming firmer with depth and into pan by 4.35m.
B22	5mm rB Fe pan with organic pan above and below. Watertable below Fe Pan at 4.75m. Test well installed with bailer. 1st sample 22/11/1974.
B23	Saturated sands.

Observation Notes

Parent material: Quaternary silica sand. Micro-relief: Sl. Uneven due to differential sandtrapping. Landform: Interdune corridor between wings of adjacent sandblows. Water-table at 4.75m. Test well installed. Veg: Rain Forest.

Site Notes

State Forest of indigenous species principally Tristania and Agathis. Interdune corridor between Burwilla 2 sandblows over running deflated corridor of Warrawonga sandblow.

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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 - 0.01										
0.01 - 0.11	6.1H	0.03B								
0.11 - 0.21										
0.21 - 0.31	5.6H	<0.02B								
0.31 - 0.41										
0.41 - 0.51	5.4H	<0.02B								
0.51 - 0.61										
0.61 - 0.76	5.5H	<0.02B								
0.76 - 0.91	6H	<0.02B								
0.91 - 1.21										
1.21 - 1.51	6.6H	<0.02B								
1.51 - 1.81										
1.81 - 2.11										
2.11 - 2.41										
2.41 - 2.71										
2.71 - 3.01	6.4H	<0.02B								
3.01 - 3.31										
3.31 - 3.61										
3.61 - 3.91										
3.91 - 4.21	6.6H	<0.02B								
4.21 - 4.51	5.2H	<0.02B								
4.51 - 4.81	5.3H	<0.02B								
4.81 - 5.11	5.3H	<0.02B								
5.11 - 5.41	5.3H	<0.02B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle	Size	Analysis	
		C	P	P	N	K	Density	GV CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%		
0 - 0.01											
0.01 - 0.11		0.67E	7B		0.04B						
0.11 - 0.21											
0.21 - 0.31		0.44E	4B		0.028B						
0.31 - 0.41											
0.41 - 0.51		0.45E	5B		0.031B						
0.51 - 0.61											
0.61 - 0.76		0.09E	1B		0.01B						
0.76 - 0.91		0.07E	1B		0.006B						
0.91 - 1.21											
1.21 - 1.51		0.04E	1B		0.004B						
1.51 - 1.81											
1.81 - 2.11											
2.11 - 2.41											
2.41 - 2.71											
2.71 - 3.01		0.05E	1B		0.001B						
3.01 - 3.31											
3.31 - 3.61											
3.61 - 3.91											
3.91 - 4.21		0.02E	1B		0.01B						
4.21 - 4.51		1.62E	4B		0.063B						
4.51 - 4.81		1.75E	20B		0.053B						
4.81 - 5.11		0.73E	14B		0.033B						

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5.11 - 5.41	1.31E	28B	0.05B

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 - 0.01										
0.01 - 0.11										
0.11 - 0.21										
0.21 - 0.31										
0.31 - 0.41										
0.41 - 0.51										
0.51 - 0.61										
0.61 - 0.76										
0.76 - 0.91										
0.91 - 1.21										
1.21 - 1.51										
1.51 - 1.81										
1.81 - 2.11										
2.11 - 2.41										
2.41 - 2.71										
2.71 - 3.01										
3.01 - 3.31										
3.31 - 3.61										
3.61 - 3.91										
3.91 - 4.21										
4.21 - 4.51										
4.51 - 4.81										
4.81 - 5.11										
5.11 - 5.41										

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Laboratory Analyses Completed for this profile

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)