

Project Name: Cooloola
Project Code: Cooloola **Site ID:** B846 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	C.H. Thompson	Locality:	Cooloola SF 451,150m W of peg no. 0, Burwilla Hole 5.
Date Desc.:	04/09/74	Elevation:	150 metres
Map Ref.:	Sheet No. : 9545-IV	Rainfall:	No Data
Northing/Long.:	153.0895867	Runoff:	No Data
Easting/Lat.:	-26.03874975	Drainage:	Rapidly drained

Geology

Exposure Type:	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:		Mapping Unit:	N/A
Podosol		Principal Profile Form:	Uc2.22
ASC Confidence:		Great Soil Group:	Podzol
Confidence level not specified			

Site Disturbance:

Vegetation:	Low Strata - , 3.01-6m, . *Species includes - Banksia serrata, Acacia flavesens, Leptospermum stellatum
	Mid Strata - , 6.01-12m, . *Species includes - Casuarina littoralis
	Tall Strata - , 20.01-35m, . *Species includes - Eucalyptus intermedia, Eucalyptus pilularis, Angophora woodsiana

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.04 m	Grey (10YR6/1-Moist); Grey (10YR5/1-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 6.2 (Raupach); Wavy change to -
A12	0.04 - 0.1 m	Grey (10YR5/1-Moist); Dark grey (10YR4/1-Moist); , 10YR61; Sand; Single grain grade of structure; Weak consistence; Field pH 5.5 (Raupach);
A12	0.1 - 0.2 m	Grey (10YR5/1-Moist); Dark grey (10YR4/1-Moist); , 10YR61; Sand; Single grain grade of structure; Weak consistence;
A12	0.2 - 0.3 m	Grey (10YR5/1-Moist); Dark grey (10YR4/1-Moist); , 10YR61; Sand; Single grain grade of structure; Weak consistence; Field pH 5.3 (Raupach); Diffuse change to -
A13	0.3 - 0.4 m	Grey (10YR6/1-Moist); Grey (10YR5/1-Moist); , 10YR61; Sand; Single grain grade of structure; Very weak consistence; Field pH 5.6 (Raupach); Few
A14	0.4 - 0.6 m	Grey (10YR6/1-Moist); Light grey (10YR7/1-Moist); , 10YR81; Sand; Single grain grade of structure; Loose consistence; Field pH 5.8 (Raupach); Diffuse change to -
A21	0.6 - 0.9 m	Light grey (10YR7/2-Moist); White (10YR8/2-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 6.8 (Raupach);
A23	0.9 - 1.1 m	White (10YR8/1-Moist); Very pale brown (10YR8/4-Moist); ; Sand; Single grain grade of structure; Loose consistence; Field pH 6.8 (Raupach); Diffuse change to -
B1	1.1 - 1.2 m	Very pale brown (10YR7/4-Moist); Yellow (10YR7/5-Moist); , 10YR81; Sand; Single grain grade of structure; Loose consistence; Wavy change to -
B21	1.2 - 1.5 m	Brownish yellow (10YR6/6-Moist); , 7.5YR43; Sand; Single grain grade of structure; Weak consistence; Field pH 5.8 (Raupach);
B22	1.5 - 1.8 m	Yellowish brown (10YR5/6-Moist); ; Sand; Single grain grade of structure; Weak consistence; Field pH 5.8 (Raupach);
B22	1.8 - 2.1 m	Very dark brown (7.5YR2/2-Moist); ; Sand; Single grain grade of structure; Weak consistence;

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B23	2.1 - 2.4 m	Yellow (10YR7/5-Moist); ; Sand; Single grain grade of structure; Weak consistence; Field pH 6.3 (Raupach);
B23	2.4 - 2.7 m	Yellow (10YR7/5-Moist); ; Sand; Single grain grade of structure; Weak consistence;
B24	2.7 - 3 m	Yellowish brown (10YR5/4-Moist); Yellow (10YR7/5-Moist); , 7.5YR43; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B24	3 - 3.3 m	Yellowish brown (10YR5/4-Moist); Yellow (10YR7/5-Moist); , 7.5YR43; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B24	3.3 - 3.6 m	Yellowish brown (10YR5/4-Moist); Yellow (10YR7/5-Moist); , 7.5YR43; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B24	3.6 - 3.9 m	Yellowish brown (10YR5/4-Moist); Yellow (10YR7/5-Moist); , 7.5YR43; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B31	3.9 - 4.2 m	Yellowish brown (10YR5/6-Moist); Dark brown (7.5YR3/2-Moist); , 10YR75; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B31	4.2 - 4.5 m	Yellowish brown (10YR5/6-Moist); Dark brown (7.5YR3/2-Moist); , 10YR75; , 10YR81; Sand; Weak consistence;
B31	4.5 - 4.8 m	Yellowish brown (10YR5/6-Moist); Dark brown (7.5YR3/2-Moist); , 10YR75; , 10YR81; Sand; Single grain grade of structure; Weak consistence;
B31	4.8 - 5.1 m	Yellowish brown (10YR5/6-Moist); Dark brown (7.5YR3/2-Moist); , 10YR75; , 10YR81; Sand; Weak consistence;
B31	5.1 - 5.4 m	Yellow (10YR7/5-Moist); , 7.5YR42; Sand; Very weak consistence;
B32	5.4 - 5.7 m	Yellow (10YR7/5-Moist); , 7.5YR42; Sand; Single grain grade of structure; Very weak consistence;
B32	5.7 - 6 m	Yellow (10YR7/5-Moist); , 7.5YR42; Sand; Single grain grade of structure; Very weak consistence;
	- m	; ;

Morphological Notes

A11 Discrete OM.
A12 Discrete and diffuse OM.
B21 DB organic accum.
B22 Some VDB weakly cemented organic lumps.
B23 Few bW A2 tubes 2-4cm diameter
B24 Few VDB - B1 organic weakly cemented lumps.
B31 Few VDB organic lumps.
B31 Appears to be grading into C horizon.

Observation Notes

Stabilised sandblow - NW mouth. Parent material: Quaternary silica sand, Burwillia (1) Formation. Literature: Coadlak JE. (1961); CSIRO Bull 283, Thompson CH (1974); Proc. Roy. Soc. Qld. Veg: Grassy forest.

Site Notes

State Forest Reserve. Managed under controlled burning (every 3rd year) program.

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Laboratory Test Results:

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4.8 - 5.1
5.1 - 5.4
5.4 - 5.7
5.7 - 6
-

0.1E 4B 0.003B 99I 0 1

Depth m	COLE	Gravimetric/Volumetric Water Contents						K _{sat} mm/h	K _{unsat} mm/h
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar		

0 - 0.04
0.04 - 0.1
0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.6
0.6 - 0.9
0.9 - 1.1
1.1 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7
2.7 - 3
3 - 3.3
3.3 - 3.6
3.6 - 3.9
3.9 - 4.2
4.2 - 4.5
4.5 - 4.8
4.8 - 5.1
5.1 - 5.4
5.4 - 5.7
5.7 - 6
-

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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
2_LOI	Loss on Ignition (%)
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 H ₂ SO ₄ (BSES)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded