Project Name: **New Farm Forest**
Project Code: **NFF** **Site ID:** **BER2** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By: I. Hollingsworth
Date Desc.: 06/03/97
Map Ref.: Sheet No. : 7029 1:100000
Northing/Long.: 6209776 AMG zone: 54
Easting/Lat.: 463619 Datum: AGD66
Locality:
Elevation: 50 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Poorly drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, 1.1 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Closed Depression
Elem. Type: Swale
Slope: 0 %
Pattern Type: Dunefield
Relief: 5 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Subpeaty Lithocalcic Calcarosol Thick Non-gravelly Loamy Clay-loamy Deep
Mapping Unit: N/A
Principal Profile Form: N/A
ASC Confidence:
No analytical data are available but confidence is fair.
Great Soil Group: N/A

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Brown (7.5YR4/2-Moist); , 5YR46, 2-10% , 5-15mm, Faint; Fine sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 8.5 (Raupach); Many, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.2 - 0.45 m	Reddish brown (5YR4/4-Moist); , 0-0% ; Fine sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Slightly plastic; Normal plasticity; Slightly sticky; Field pH 10 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
B2k	0.45 - 1.1 m	Pink (7.5YR7/4-Moist); , 5YR58, 2-10% , 5-15mm, Distinct; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Moderately plastic; Normal plasticity; Slightly sticky; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersed, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Field pH 10 (Raupach); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
Dkm	1.1 - m	; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Wet; Calcrete, Moderately cemented, Continuous, Massive; Field pH 10 (Raupach);

Morphological Notes

Observation Notes

Same location as Ber1, swale of duneplain

Site Notes

Berridale irrigated woodlot, Riverland, E. grandis planting failed, wet low lying site ponded water in winter

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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							%

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			%		

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

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Laboratory Analyses Completed for this profile