

Project Name: New Farm Forest
Project Code: NFF **Site ID:** MOO3 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	I. Hollingsworth	Locality:	
Date Desc.:	05/03/97	Elevation:	50 metres
Map Ref.:	Sheet No. : 7029 1:100000	Rainfall:	No Data
Northing/Long.:	6184820 AMG zone: 54	Runoff:	Slow
Easting/Lat.:	463900 Datum: AGD66	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 0.7 m deep,Porous, Eolian sand

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Dunefield
Morph. Type:	Flat	Relief:	5 metres
Elem. Type:	Duneslope	Slope Category:	Level
Slope:	5 %	Aspect:	180 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:	Argic Hypercalcic Calcarosol Thick Gravelly Very fine 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
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Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments: 10-20%, medium gravelly, 6-20mm, rounded tabular, Calcrete

Profile Morphology

O	0 - 0.02 m	Organic Layer; , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersed, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Fragments; Sharp, Smooth change to -
Ak	0.02 - 0.35 m	Dark reddish brown (5YR3/4-Moist); , 0-0% ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Non-plastic; Normal plasticity; Non-sticky; 10-20%, medium gravelly, 6-20mm, rounded tabular, dispersed, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 7.5 (Raupach); Many, fine (1-2mm) roots; Gradual, Wavy change to -
B1	0.35 - 0.7 m	Yellowish red (5YR5/8-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Slightly plastic; Normal plasticity; Moderately sticky; 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Calcrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Wavy change to -
BCK	0.7 - 1.8 m	Yellowish red (5YR4/8-Moist); , 0-0% ; Sandy light clay; Massive grade of structure; Earthy fabric; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moist; Moderately plastic; Normal plasticity; Moderately sticky; 20-50%, medium gravelly, 6-20mm, rounded tabular, dispersed, Calcrete, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 10 (Raupach); Few, fine (1-2mm) roots;
Ck	1.8 - 2 m	; Wet; Moderately plastic; Normal plasticity; Moderately sticky; Field pH 10 (Raupach); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Shallower soil over calcrete on lower duneslope, growth not as good as MOO4

Site Notes

MOORES IRRIGATED WOODLOT, RIVERLAND, LOXTON, duneslope with calcrete rubble; photos 77/16, 77/17, 77/18

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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	Acidity		
						Cmol (+)/kg			%

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			%		

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