Project Name: SOR
Project Code: SOR **Site ID:** H78 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	J. Loveday	**Locality:**	.4km W of rd junction near Carlton house
Date Desc.:	27/01/54	**Elevation:**	91 metres
Map Ref.:	Sheet No. : 8412 1:100000	**Rainfall:**	540
Northing/Long.:	147.69666667	**Runoff:**	Rapid
Easting/Lat.:	-42.8683333	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Soil pit, 0.69 m deep,Dolerite

Land Form

Rel/Slope Class:	Rolling hills 90-300m 10-32%	**Pattern Type:**	Hills
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Ferric Eutrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Db1.22
Great Soil Group: Grey-brown podzolic soil

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Lomandra longifolia
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus globulus, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Greyish brown (2.5Y5/2-Moist); ; Fine sandy loam; Weak grade of structure, Granular; Dry; Weak consistence; 0-2%, Gravel, coarse fragments; CommonDiffuse change to -
A12	0.08 - 0.14 m	Light brownish grey (2.5Y6/2-Moist); ; Fine sandy loam (Light); Massive grade of structure; Dry; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A21	0.14 - 0.2 m	Light brownish grey (2.5Y6/2-Moist); ; Fine sandy loam (Light); Massive grade of structure; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; 2-10%, Dolerite, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Concretions; Diffuse change to -
A22	0.2 - 0.25 m	Light brownish grey (2.5Y6/2-Moist); ; Fine sandy loam (Light); Massive grade of structure; Dry; Firm consistence; 2-10%, Dolerite, coarse fragments; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; Sharp change to -
B1	0.28 - 0.33 m	Olive brown (2.5Y4/4-Moist); , 10YR56; Heavy clay; , Subangular blocky; Dry; Rigid consistence; 2-10%, Dolerite, coarse fragments; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.33 - 0.48 m	Olive brown (2.5Y4/4-Moist); , 10YR56; Heavy clay; 50-100 mm, Prismatic; Massive grade of structure; Dry; Rigid consistence; 2-10%, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
BC	0.48 - 0.58 m	Olive brown (2.5Y4/4-Moist); , 10YR56; Heavy clay; 50-100 mm, Prismatic; Massive grade of structure; Moderately moist; Very firm consistence; 10-20%, Gravel, coarse fragments; Very few (0 - 2 %), Unidentified, , Concretions; Diffuse change to -
C	0.58 - 0.69 m	Olive brown (2.5Y4/4-Moist); , 10YR56;

Morphological Notes

Observation Notes

58-69CM DECOMPOSED DOLERITE:48-58CM COARSE FRACTION IS GRITTY W`D DOLERITE:

Site Notes

PEMBROKE

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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 - 0.08	5.8A		4.8H	1.9	0.29	0.21	6H		17B	
							9.7E			
0.08 - 0.14	5.7A							10C		
0.14 - 0.2	6.2A		5.2H	1.7	0.15	0.23	3.9H		14B	
							6.7E			
0.2 - 0.25	6.1A									
0.28 - 0.33	6.9A		6.3H	6.6	0.14	0.84	1.9H		19B	
							5.1E			
0.33 - 0.48	7.2A									
0.48 - 0.58	7.7A									
0.58 - 0.69	7.7A		10.7H	13.9	0.17	3.8	2.2E		30.8B	

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 - 0.08		2.3D		0.007D	0.181A			1	8D	56	18	12
0.08 - 0.14		1.4D			0.109A							
0.14 - 0.2		1.1D			0.075A			6	12D	54	25	5
0.2 - 0.25												
0.28 - 0.33		0.6D		0.005D				20	14B	43	15	27
0.33 - 0.48												
0.48 - 0.58												
0.58 - 0.69				0.005D				0	38B	21	12	25

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 - 0.08										
0.08 - 0.14										
0.14 - 0.2										
0.2 - 0.25										
0.28 - 0.33										
0.33 - 0.48										
0.48 - 0.58										
0.58 - 0.69										

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Laboratory Analyses Completed for this profile

15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C_H1	Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A_HCL	Total element - P(%) - By boiling HCl
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette