Project Name: SOR
Project Code: SOR **Site ID:** H84 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: C.G. Stephens
Date Desc.: 04/02/54
Map Ref.: Sheet No. : 8412 1:100000
Northing/Long.: 147.633333333333
Easting/Lat.: -42.7333333333333
Locality: 91m E of Wattle Hill post office:
Elevation: 137 metres
Rainfall: 640
Runoff: Moderately rapid
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Basalt

Land Form

Rel/Slope Class: No Data
Morph. Type: Ridge
Elem. Type: Hillslope
Slope: 8.8 %
Pattern Type: No Data
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Self-Mulching Black Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Gn3.43
Great Soil Group: Prairie soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.09 m	Very dark grey (10YR3/1-Moist); ; Light clay; , Granular; Moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
A	0.09 - 0.14 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; , Angular blocky; Moist; Moderately plastic; Normal plasticity; Sharp change to -
B	0.14 - 0.25 m	Very dark greyish brown (2.5Y3/2-Moist); , 10YR31; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; Diffuse change to -
B	0.25 - 0.38 m	Very dark greyish brown (2.5Y3/2-Moist); , 5Y41; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; 2-10%, cobbly, 60-200mm, Basalt, coarse fragments; Diffuse change to -
B	0.38 - 0.51 m	Dark greyish brown (2.5Y4/2-Moist); , 5Y41; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; 0-2%, Basalt, coarse fragments; Diffuse change to -
B	0.51 - 0.63 m	Dark greyish brown (2.5Y4/3-Moist); ; Heavy clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; Diffuse change to -
B	0.66 - 0.76 m	Very dark greyish brown (2.5Y3/2-Moist); , 10YR56; Heavy clay; Massive grade of structure; Moderately moist; Weak consistence; Diffuse change to -
BC	0.76 - 0.89 m	Olive brown (2.5Y4/4-Moist); , 5Y42; Moderately moist; 2-10%, Basalt, coarse fragments; Diffuse change to -
C	1.29 - 1.42 m	Yellowish brown (10YR5/6-Moist); ; Moderately moist; Firm consistence;

Morphological Notes

Observation Notes

76-89CM MEALY DECOMPOSED BA WITH SOME CLAY:129-142CM MEALY W`D BA:51-63CM GREENISH (GLEYING) FLECKS:MAYWA SERIES:

Site Notes

PEMBROKE

Project Name: SOR
Project Code: SOR **Site ID:** H84 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.09	6.6A		21.8H	19.5	0.32	1.5	10.6H 20E		63.1B	
0.09 - 0.14	6.3A							51C		
0.14 - 0.25	6.8A							59C		
0.25 - 0.38	7.4A		25.7H	38.4	0.22	2.2	12.3E		79B	
0.38 - 0.51	7.9A									
0.51 - 0.63	7.9A							59.5C		
0.66 - 0.76	8.3A									
0.76 - 0.89	8.6A									
1.29 - 1.42	6.8A									

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 - 0.09		3.7D		0.048D	0.36A			1	2B	25	31	37
0.09 - 0.14		3.1D		0.04D	0.293A							
0.14 - 0.25		1.8D			0.186A			0	1D	18	18	56
0.25 - 0.38								0	1D	15	17	69
0.38 - 0.51	<0.01A											
0.51 - 0.63	<0.01A							0	<1B	18	26	52
0.66 - 0.76	<0.01A											
0.76 - 0.89	0.03A											
1.29 - 1.42												

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 - 0.09									
0.09 - 0.14									
0.14 - 0.25									
0.25 - 0.38									
0.38 - 0.51									
0.51 - 0.63									
0.66 - 0.76									
0.76 - 0.89									
1.29 - 1.42									

Project Name: **SOR**
Project Code: **SOR** **Site ID:** **H84** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (TAS)**

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)
19A1	Carbonates - rapid titration
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