

**Project Name:** SOR  
**Project Code:** SOR      **Site ID:** H69      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	.8km E of Sorell
<b>Date Desc.:</b>	24/12/53	<b>Elevation:</b>	30 metres
<b>Map Ref.:</b>	Sheet No. : 8412 1:100000	<b>Rainfall:</b>	560
<b>Northing/Long.:</b>	147.583333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-42.783333333333	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	Soil pit	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Soil pit, 0.41 m deep,Basalt

**Land Form**

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	3.5 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Melanic Eutrophic Black Kandosol		<b>Principal Profile Form:</b>	Gn3.42
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Prairie soil
All necessary analytical data are available.			

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.064 m	Very dark brown (10YR2/2-Moist); ; Light clay; 20-50 mm, Angular blocky; 2-5 mm, Granular; Dry; Strong consistence; 0-2%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Diffuse change to -
A	0.064 - 0.16 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; , Angular blocky; 2-5 mm, Granular; Dry; Strong consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
B	0.19 - 0.29 m	Very dark brown (10YR2/2-Moist); ; Heavy clay; , Prismatic; Massive grade of structure; Moderately moist; Strong consistence; 10-20%, Basalt, coarse fragments; FewDiffuse change to -
B	0.29 - 0.38 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Massive grade of structure; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, Basalt, coarse fragments; Diffuse change to -
BC	0.38 - 0.48 m	Black (2.5Y2/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Firm consistence; 20-50%, Basalt, coarse fragments;

**Morphological Notes**

**Observation Notes**

38-48CM SAMPLE TAKEN FROM CRACKS IN MASSIVE BASALT:SORELL SERIES:

**Site Notes**

PEMBROKE

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**Laboratory Test Results:**

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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 (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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