

**Project Name:** DER  
**Project Code:** DER **Site ID:** H234 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

**Desc. By:** G.M. Dimmock **Locality:** .8KM NE of Bridgewater P.O. on property "Parkholme":16M from fence at 15degrees and 4.3M from 282degrees fence:  
**Date Desc.:** 06/12/61 **Elevation:** 43 metres  
**Map Ref.:** **Rainfall:** 560  
**Northing/Long.:** 147.233333333333 **Runoff:** Moderately rapid  
**Easting/Lat.:** -42.733333333333 **Drainage:** Imperfectly drained

**Geology**

**ExposureType:** Soil pit **Conf. Sub. is Parent. Mat.:** No Data  
**Geol. Ref.:** Blb **Substrate Material:** Soil pit, 0.74 m deep,Basalt

**Land Form**

**Rel/Slope Class:** No Data **Pattern Type:** Low hills  
**Morph. Type:** Upper-slope **Relief:** No Data  
**Elem. Type:** Hillslope **Slope Category:** Gently inclined  
**Slope:** 3.5 % **Aspect:** 0 degrees

**Surface Soil Condition (dry):** Cracking, Hardsetting

**Erosion:**

**Soil Classification**

**Australian Soil Classification:** **Mapping Unit:** N/A  
Haplic Epipedal Black Vertosol **Principal Profile Form:** Ug5.12  
**ASC Confidence:** **Great Soil Group:** Black earth  
All necessary analytical data are available.

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

**Vegetation:**

**Surface Coarse Fragments:** 2-10%, , , Basalt

**Profile Morphology**

A	0 - 0.13 m	Black (10YR2/1-Moist); Very dark grey (10YR3/1-Dry); ; Light clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Dry; Strong consistence; 10-20%, cobbly, 60-200mm, Basalt, coarse fragments; AbundantClear change to -
B	0.14 - 0.25 m	; Heavy clay; 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Angular blocky; Medium, (5 - 10) mm crack; Dry; Rigid consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; CommonDiffuse change to -
B	0.25 - 0.38 m	Black (10YR2/1-Moist); Black (10YR2/1-Dry); ; Heavy clay; 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Rigid consistence; 2-10%, fine gravelly, 2-6mm, Basalt, coarse fragments; CommonDiffuse change to -
BC	0.38 - 0.47 m	Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Medium, (5 - 10) mm crack; Dry; Rigid consistence; 50-90%, cobbly, 60-200mm, subangular platy, Basalt, coarse fragments; FewAbrupt, Irregular change to -
C	0.63 - 0.74 m	Light olive brown (2.5Y5/4-Moist); , 10YR41; Heavy clay; 20-50%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Abrupt change to -

**Morphological Notes**

**Observation Notes**

63-74CM CLAY AND MEALY DECOMPOSED BASALT:

**Site Notes**

BRIGHTON

**Observation ID: 1**

[illegible]

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**Laboratory Analyses Completed for this profile**

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
3A1	EC of 1:5 soil/water extract
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 (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette