

**Project Name:** QUA  
**Project Code:** QUA      **Site ID:** H91      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	4.1km north of Bracknell:
<b>Date Desc.:</b>	24/02/54	<b>Elevation:</b>	200 metres
<b>Map Ref.:</b>	Sheet No. : 8214    1:100000	<b>Rainfall:</b>	850
<b>Northing/Long.:</b>	146.933333333333	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-41.616666666667	<b>Drainage:</b>	Imperfectly 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>	Basalt

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Ferrosol	<b>Principal Profile Form:</b>	Uf
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Krasnozem
All necessary analytical data are available.		

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.064 m	Dark reddish brown (5YR3/4-Moist); ; Light clay; ; Granular; Moderately moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
A	0.064 - 0.11 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; ; Angular blocky; ; Granular; Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Sharp change to -
B	0.13 - 0.23 m	Dark red (2.5YR3/6-Moist); ; 5YR33; Heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; ; Granular; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.23 - 0.36 m	Dark red (2.5YR3/6-Moist); ; 5YR33, 2-10% ; ; 2-10% ; Heavy clay; Weak grade of structure, Angular blocky; ; Granular; Moist; Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Diffuse change to -
B	0.38 - 0.46 m	Red (2.5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Moist; Weak consistence; Diffuse change to -
BC	0.48 - 0.58 m	Red (2.5YR4/8-Moist); ; 2.5Y74; ; N80; Heavy clay; Moderately moist; Weak consistence; Diffuse change to -
C	0.61 - 0.74 m	Black (5Y2/2-Moist); ; 2.5YR66; Heavy clay; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
C	0.74 - 0.91 m	Black (5Y2/2-Moist); ; 10YR56; Moderately moist; Weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
C	0.91 - 1.04 m	Black (5Y2/2-Moist); ; 10YR56; ; 2.5YR66; Moderately moist; Weak consistence;
	1.37 - 1.52 m	Yellowish brown (10YR5/6-Moist); ; Firm consistence;
	2.39 - 2.49 m	;

**Morphological Notes**

Soft mealy weathered basalt

**Observation Notes**

VERY OCCASIONAL BA FLOATERS IN PROFILE:74-249CM MEALY W'D BA WITH SOME SOFT MINERALS RETAINING SOME OF ITS BA STRUCTURE

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**Site Notes**

WESTBURY

**Observation ID: 1**

[illegible]

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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
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette