

**Project Name:** QUA  
**Project Code:** QUA      **Site ID:** H25      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J.K. Taylor	<b>Locality:</b>	8.5km NNE of Bracknell and 2.0km ENE of Oaks station:
<b>Date Desc.:</b>	21/01/52	<b>Elevation:</b>	165 metres
<b>Map Ref.:</b>	Sheet No. : 8214 1:100000	<b>Rainfall:</b>	700
<b>Northing/Long.:</b>	147	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-41.5833333333333	<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>	Auger boring, 3.4 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Terrace (alluvial)
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Eutrophic Sodosolic Redoxic Hydrosol		<b>Principal Profile Form:</b>	Dy3.41
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Gleyed podzolic soil
Analytical data are incomplete but reasonable confidence.			

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.15 m	Pale brown (10YR6/3-Dry); ; Loam; Massive grade of structure; Dry; Loose consistence; Non-plastic; 2-10%, Gravel, coarse fragments; Sharp, Irregular change to -
A2	0.18 - 0.36 m	Light grey (10YR7/2-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Weak consistence; Non-plastic; Common (10 - 20 %), Ferromanganiferous, Medium (2 -6 mm), Soft segregations; Diffuse change to -
B	0.36 - 0.38 m	Grey (10YR6/1-Moist); ; Clay loam; Massive grade of structure; Non-plastic; 10-20%, Gravel, coarse fragments; Diffuse change to -
	0.38 - 0.51 m	Olive grey (5Y5/2-Moist); ; 10YR56; Heavy clay; Weak grade of structure, Prismatic; Very weak consistence; Non-plastic; Diffuse change to -
	0.51 - 0.71 m	Olive grey (5Y5/2-Moist); ; 10YR56; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; Diffuse change to -
	0.76 - 0.96 m	Yellowish brown (10YR5/6-Moist); ; 5Y62; ; 2.5YR48; Heavy clay; Massive grade of structure; Moderately plastic; Normal plasticity; Diffuse change to -
	0.96 - 1.22 m	Light bluish grey (5B7/1-Moist); ; N50; ; 10YR56; Heavy clay; Massive grade of structure; Very plastic; Normal plasticity; Diffuse change to -
	1.68 - 1.83 m	Yellowish brown (10YR5/6-Moist); ; 5B61; Heavy clay; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
2	2.39 - 2.44 m	Brownish yellow (10YR6/8-Moist); ; 5B61; ; 2.5YR44; Heavy clay; Very plastic; Normal plasticity; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Nodules;

**Morphological Notes**

**Observation Notes**

38-71CM BL FINE INCLUSIONS (PROBABLY W'D GRAVEL) ALSO:76-122CM SLIGHTLY GLEYED TO GLEYED:BRUMBY SERIES:

**Site Notes**

WESTMORLAND

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**Laboratory Analyses Completed for this profile**

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, 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
6_DC	Organic carbon (%) - Dry combustion
6A1	Organic carbon - Walkley and Black
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
P10_GRAV	Gravel (%)
P10A1_C	Clay (%) - Pipette
P10A1_CS	Coarse sand (%) - Pipette
P10A1_FS	Fine sand (%) - Pipette
P10A1_Z	Silt (%) - Pipette
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gt	Geothite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction