

**Project Name:** QUA  
**Project Code:** QUA      **Site ID:** H26      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (TAS)

**Site Information**

<b>Desc. By:</b>	J.K. Taylor	<b>Locality:</b>	8.5km NE of Bracknell and 1.8km from Oaks station:
<b>Date Desc.:</b>	21/01/52	<b>Elevation:</b>	161 metres
<b>Map Ref.:</b>	Sheet No. : 8314    1:100000	<b>Rainfall:</b>	700
<b>Northing/Long.:</b>	147	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-41.5833333333333	<b>Drainage:</b>	Very 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>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<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 Chromosolic Redoxic Hydrosol	<b>Principal Profile Form:</b>	Ug6.4
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Humic gley

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Rush, 0.51-1m, Mid-dense. \*Species includes - None recorded

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.18 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam (Fibric); Massive grade of structure; Weak consistence; Non-plastic; Non-sticky; Diffuse change to -
0.18 - 0.41 m	Black (10YR2/1-Moist); ; Heavy clay (Fibric); Massive grade of structure; Very plastic; Normal plasticity; Non-sticky; Diffuse change to -
0.41 - 0.61 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay (Fibric); Massive grade of structure; Very plastic; Normal plasticity; Slightly sticky; Diffuse change to -
0.66 - 0.86 m	Dark bluish grey (5B4/1-Moist); , 10YR58; , 5Y52; Heavy clay; Massive grade of structure; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments; Diffuse change to -
0.99 - 1.14 m	Yellowish brown (10YR5/8-Moist); , 5B41; , 5Y52; Heavy clay; Massive grade of structure; 0-2%, fine gravelly, 2-6mm, Quartz, coarse fragments;

**Morphological Notes**

**Observation Notes**

66-86CM 10YR5/8 MATERIAL FEELS SANDY (IRON OXIDE):CANOLA SERIES:

**Site Notes**

WESTMORLAND

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.18	5.1A		7.4H	3.8	0.54	0.64	37.6H 62.6E		75.1B	
0.18 - 0.41	5.6A									
0.41 - 0.61	5.7A		8.9H	5.6	0.24	0.36	12.8H 20.8E		36B	
0.66 - 0.86	5.7A									
0.99 - 1.14	5.8A		7.4H	3.1	0.2	0.28	6.1H 10.9E		22B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt	Clay
0 - 0.18		8.07D		0.116D	0.89A			0	<1B	3	22	59
0.18 - 0.41		3.5D		0.032D	0.39A							
0.41 - 0.61		1.3D		0.02D	0.18A			0	10B	19	17	50
0.66 - 0.86		0.9D			0.11A							
0.99 - 1.14		0.6D		0.032D	0.077A			0	12B	27	20	38

[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
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
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Lp	Lepidocrosite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction