

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B623      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	G.D. Hubble	<b>Locality:</b>	
<b>Date Desc.:</b>	01/09/69	<b>Elevation:</b>	130 metres
<b>Map Ref.:</b>	Sheet No. : 7447 1:100000	<b>Rainfall:</b>	278
<b>Northing/Long.:</b>	142.763888888889	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-25.397222222222	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>Exposure Type:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	Qa	<b>Substrate Material:</b>	Auger boring, 2 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Flood plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	2 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Surface crust

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Endohypersodic Self-Mulching Brown Vertosol		<b>Principal Profile Form:</b>	Ug5.24
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Grey clay
All necessary analytical data are available.			

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:**

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, , Gravel

**Profile Morphology**

A1	0 - 0.05 m	Greyish brown (10YR5/2-Moist); Light brownish grey (10YR6/2-Dry); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; Clear change to -
B2	0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence;
B2	0.1 - 0.2 m	Greyish brown (10YR5/2-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; Gradual change to -
B2	0.2 - 0.3 m	Brown (10YR5/3-Moist); Pale brown (10YR6/3-Dry); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence;
B2	0.3 - 0.6 m	Brown (10YR5/3-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence;
B2	0.6 - 0.9 m	Brown (10YR5/3-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.9 - 1.2 m	Brown (10YR5/3-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals;
B2	1.2 - 1.5 m	Brown (10YR5/3-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Diffuse change to -
B2	1.5 - 1.8 m	Light yellowish brown (10YR6/4-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Gypseous, , Crystals;
B2	1.8 - 2 m	Light yellowish brown (10YR6/4-Moist); ; Medium heavy clay; , Lenticular; Dry; Strong consistence;

**Morphological Notes**

**Observation Notes**

SITE DEVOID OF VEGETATION AT TIME OF SAMPLING.

**Site Notes**

WINDORAH

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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 - 0.05	7.1H	0.029B	16K	6	1	0.64	3.4D			
0.05 - 0.1	7.2H	0.037B	17.8K	6.1	0.83	1	3.8D			
0.1 - 0.2	7.6H	0.028B								
0.2 - 0.3	7.7H	0.032B	18.4K	5.7	0.68	1.9	1.8D			
0.3 - 0.6	7.8H	0.11B								
0.6 - 0.9	8.1H	0.28B								
0.9 - 1.2	8.3H	0.4B								
1.2 - 1.5	7.8H	1.2B								
1.5 - 1.8	7.5H	0.73B								
1.8 - 2	7.3H	0.54B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05		0.27A	84B	0.035F	0.045B	0.71B			7C	34	21	39
0.05 - 0.1		0.19A	86B	0.03F	0.021B	0.67B			6C	29	18	46
0.1 - 0.2		0.15A										
0.2 - 0.3		0.14A		0.034F	0.029B	0.73B			6C	31	21	42
0.3 - 0.6	0.03C	0.14A		0.03F	0.019B	0.66B			6C	31	20	44
0.6 - 0.9	0.08C											
0.9 - 1.2	0.16C	0.09A		0.044F	0.014B	0.81B			4C	29	21	45
1.2 - 1.5	0.06C											
1.5 - 1.8												
1.8 - 2		0.06A		0.041F	0.014B	0.81B			3C	32	20	45

[illegible]

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**Laboratory Analyses Completed for this profile**

10A_NR	Total element - S(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction