

**Project Name:** WQA  
**Project Code:** WQA      **Site ID:** B600      **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>	No Data
<b>Map Ref.:</b>	Sheet No. : 6949    1:100000	<b>Rainfall:</b>	221
<b>Northing/Long.:</b>	139.925	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	-24.475	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	Auger boring	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	KW	<b>Substrate Material:</b>	Auger boring, 1 m deep, Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Pediment
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<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
Gypsic 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:** 2-10%, medium gravelly, 6-20mm, , Gravel

**Profile Morphology**

A1	0 - 0.1 m	Yellowish brown (10YR5/4-Moist); Light yellowish brown (10YR6/4-Dry); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Dry; Loose consistence; 0-2%, fine gravelly, 2-6mm, coarse fragments;
B2	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Gypseous, , ;
B2	0.2 - 0.3 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence;
B2	0.3 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Dry; Strong consistence; Very few (0 - 2 %), Gypseous, , Crystals;
B2	0.6 - 0.75 m	Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Dry; Strong consistence; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals;
B2	0.75 - 0.9 m	Yellow (10YR7/6-Dry); ; Light medium clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Many (20 - 50 %), Gypseous, Medium (2 -6 mm), Crystals;
B2	0.9 - 1.2 m	Yellow (10YR7/6-Dry); ; Medium clay; , Angular blocky; Dry; Strong consistence; Many (20 - 50 %), Gypseous, Medium (2 -6 mm), Crystals;
B3	1.2 - 1.5 m	Yellow (10YR7/6-Dry); ; Medium clay; Dry; Firm consistence; Many (20 - 50 %), Gypseous, Medium (2 -6 mm), Crystals;
B3	1.5 - 1.8 m	Yellow (10YR7/6-Dry); ; Medium clay; Dry; Firm consistence; Many (20 - 50 %), Gypseous, Medium (2 -6 mm), Crystals;

**Morphological Notes**

**Observation Notes**

NO VEGETATION AT SITE:SINGLE PLATE FRAGILE SURFACE CRUST SEPARATED BY 1-2MM CRACKS INTO PLATES 10CM ACROSS:PARENT MATERIAL LOCAL ALLUVIUM FROM ALTERED SEDIMENTARY ROCK:

**Site Notes**

NYAMA MATERHOL

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.1	7.2H	0.046B							
0.1 - 0.2	7.3H	0.047B							
0.2 - 0.3	6.7H	0.44B							
0.3 - 0.6	63.5H	2.4B							
0.6 - 0.75	6.7H	6.5B							
0.75 - 0.9	7.6H	36B							
0.9 - 1.2	7.8H	39.4B							
1.2 - 1.5	7.8H	35.5B							
1.5 - 1.8	7.8H	31B							

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.17E	33B	0.047F	0.024B	0.76B			13C	41	8	39
0.1 - 0.2		0.13E			0.019B							
0.2 - 0.3		0.12E	18B	0.044F	0.019B	0.73B			11C	38	6	44
0.3 - 0.6		0.12E			0.017B							
0.6 - 0.75		0.11E		0.049F	0.017B	0.75B						
0.75 - 0.9	0.68C	0.07E			0.017B				3C	13	12	35
0.9 - 1.2	0.98C	0.05E	13B	0.098F	0.016B	0.57B						
1.2 - 1.5	0.39C											
1.5 - 1.8	0.08C		3B	0.15F		0.67B			1C	8	21	46

[illegible]

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**Laboratory Analyses Completed for this profile**

10A_NR	Total element - S(%) - Not recorded
17A_NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (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