Project Name: GH
Project Code: GH **Site ID:** CP41 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	**Locality:**	Yumo just north of Meerah North
Date Desc.:	19/02/62	**Elevation:**	250 metres
Map Ref.:	Sheet No. : 8737 1:100000	**Rainfall:**	660
Northing/Long.:	149.333333333333	**Runoff:**	Very slow
Easting/Lat.:	-30.1166666666667	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Undisturbed soil core	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	<1 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol

Mapping Unit: N/A
Principal Profile Form: Ug5.24

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: Grey clay

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation: Low Strata - Sod grass, , Mid-dense. *Species includes - None recorded
Mid Strata - Forb, , . *Species includes - None recorded
Tall Strata - Tree, , Isolated plants. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.5 (pH meter); Diffuse change to -
0.1 - 0.2 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; 10-20 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.2 - 0.3 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8 (pH meter);
0.3 - 0.4 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.4 - 0.5 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);
0.5 - 0.6 m	Dark grey (2.5Y4/1-Moist); , 10YR41; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.6 - 0.7 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
0.7 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.8 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
0.9 - 1 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

ALLUVIUM

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Site Notes

MEERAH NORTH

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	7.5A	0.16A	27.9K	11.4	1.2	0.9	2D	42.9J		2.10
	7.7A	0.12A	19.3K	10.9	1	0.88		34.1J		2.58
0 - 0.1	7.5A	0.16A	27.9K	11.4	1.2	0.9	2D	42.9J		2.10
	7.7A	0.12A	19.3K	10.9	1	0.88		34.1J		2.58
0.2 - 0.3	8A	0.19A	26.8K	12	0.77	2.3		43.1J		5.34
0.4 - 0.5	8.2A	0.31A								
0.6 - 0.7	8.3A	0.35A								
0.8 - 0.9	8.4A	0.44A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0A	0.93D	10A						13D	16	15	55
		1D	13.8A						15D	16	12	57
0 - 0.1	0A	0.93D	10A						13D	16	15	55
		1D	13.8A						15D	16	12	57
0.2 - 0.3	1.02A		4A									
0.4 - 0.5			2A									
0.6 - 0.7			3A									
0.8 - 0.9			7A									

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0 - 0.1										
0.2 - 0.3										
0.4 - 0.5										
0.6 - 0.7										
0.8 - 0.9										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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
19A1	Carbonates - rapid titration
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
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