Project Name: GH

Project Code: GH Site ID: CP35 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

**Site Information** 

Desc. By: J. Loveday Locality: 11KM from junction Spring Plain/Narrabri Road and

road past Windra to Treeless Plain

 Date Desc.:
 17/02/69
 Elevation:
 250 metres

 Map Ref.:
 Sheet No.: 8738
 1:100000
 Rainfall:
 660

 Northing/Long.:
 149.466666666667
 Runoff:
 Very slow

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%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:LevelSlope:<1 %</th>Aspect:0 degrees

Surface Soil Condition (dry): Self-mulching, Cracking

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Self-Mulching Grey VertosolPrincipal Profile Form:Ug5.28

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

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

Vegetation: Low Strata - Vine, , . \*Species includes - None recorded

Mid Strata - Chenopod shrub, , . \*Species includes - Chloris species, Salsola kali

Dark grey (2.5Y4/1-Moist); ; Medium clay; 2-5 mm, Angular blocky; Weak consistence; Few (2 -

#### **Surface Coarse Fragments:**

### **Profile Morphology**

0 - 0.1 m

	10 %), Calcareous, , Soft segregations; Field pH 7.2 (pH meter);
0.1 - 0.2 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; 10-20 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.2 - 0.3 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
0.3 - 0.4 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; 20-50 mm, Angular blocky; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.4 - 0.5 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
0.5 - 0.6 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.6 - 0.7 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
0.7 - 0.8 m	Dark grey (5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations;
0.8 - 0.9 m	Dark grey (5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
0.9 - 1 m	Dark grey (5Y4/1-Moist); ; Medium clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Few (2 - 10 %), Gypseous, , ;

# **Morphological Notes**

#### **Observation Notes**

ALLUVIUM HELLABAH CLAY

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WEE WAA

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# **Laboratory Test Results:**

Depth	pH	1:5 EC	Eval	nangeable	Cations		Exchangeable	CEC		CEC	_	SP
Dehiii	μπ			iangeable /lg	K	Na	Acidity	CEC		JOEG	E.	J1 <sup>-</sup>
m		dS/m		9		Cmol (4					%	, D
0 - 0.1	7.2A	0.19A	26K	10.7	1.7	1.5	2D	40.1			_	74
	7.5A	0.18A	17.2K	10.9	1.4	1.3		32.8J				96
0 - 0.1	7.2A	0.19A	26K	10.7	1.7	1.5	2D	40.1				74
	7.5A	0.18A	17.2K	10.9	1.4	1.3		32.8J				96
0.2 - 0.3	8.5A	0.25A	23.9K	13	0.94	4.2		41.3	J		10	.17
0.4 - 0.5	8.8A	0.44A										
0.6 - 0.7	8.8A	0.66A										
0.8 - 0.9	8.8A	0.98A										
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	l Bulk	Pa	rticle	Size A	Analysis	
-		C	Р	Р	N	K	Density	G۷	CS	FS	Silt C	lay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0A	1.31D	20A						12D	16	19	52
0 - 0.1	UA	1.31D 1.1D	17.5A						11D	16	16	56
0 - 0.1	0A	1.1D 1.31D	20A						12D	16	19	52
0 - 0.1	UA	1.1D	17.5A						11D	16	16	56
0.2 - 0.3	0.79A		4A						110	.0	10	00
0.4 - 0.5	0.7 07	•	3A									
0.6 - 0.7			5A									
0.8 - 0.9			9A									
Depth	COLE		Grav	imetric/Vo	lumetric W	later Cor	r Contents		K sat		K unsat	
•		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		5 Bar				
m				g/s	g - m3/m3	3			mm/l	1	mm/h	
0 - 0.1												

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 - meg per 100g of soil - Not recorded

15\_NR\_K Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded 15\_NR\_MG 15\_NR\_NA Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

19A1 Carbonates - rapid titration Air-dry moisture content 2A1 EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

5A2

Chloride - 1:5 soil/water extract, automated colour Organic carbon (%) - Uncorrected Walkley and Black method 6A1\_UC 9B\_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

P10\_PB\_C Clay (%) - Plummet balance P10\_PB\_CS P10\_PB\_FS Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance P10\_PB\_Z Silt (%) - Plummet balance