

**Project Name:** GH  
**Project Code:** GH **Site ID:** CP35 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	J. Loveday	<b>Locality:</b>	11KM from junction Spring Plain/Narrabri Road and road past Windra to Treeless Plain
<b>Date Desc.:</b>	17/02/69	<b>Elevation:</b>	250 metres
<b>Map Ref.:</b>	Sheet No. : 8738 1:100000	<b>Rainfall:</b>	660
<b>Northing/Long.:</b>	149.466666666667	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	-29.9833333333333	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

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

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	Epicalcareous-Endohypersodic Self-Mulching Grey Vertosol	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	Ug5.28

**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 - Vine, , . \*Species includes - None recorded  
Mid Strata - Chenopod shrub, , . \*Species includes - Chloris species, Salsola kali

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark grey (2.5Y4/1-Moist); ; Medium clay; 2-5 mm, Angular blocky; Weak consistence; Few (2 - 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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**Site Notes**

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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 NaHCO <sub>3</sub> 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