

**Project Name:** CAN  
**Project Code:** CAN      **Site ID:** C403      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (NSW)

**Site Information**

<b>Desc. By:</b>	B.E. Butler	<b>Locality:</b>	Spray irrigation plot south of homestead just outside west fence
<b>Date Desc.:</b>	20/10/55	<b>Elevation:</b>	130 metres
<b>Map Ref.:</b>	Sheet No. : 8329    1:100000	<b>Rainfall:</b>	370
<b>Northing/Long.:</b>	147.3	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	-29.05	<b>Drainage:</b>	Poorly drained

**Geology**

<b>ExposureType:</b>	No Data	<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>	Very gently sloped
<b>Slope:</b>	<1 %	<b>Aspect:</b>	225 degrees

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

**Erosion:**

**Soil Classification**

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

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.03 m	Grey (5Y5/1-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm; Weak consistence; Field pH 8.3 (pH meter);
0.03 - 0.18 m	Dark grey (5Y4/1-Moist); ; Medium clay; Strong grade of structure, 50-100 mm; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 9 (pH meter);
0.18 - 0.76 m	Dark grey (5Y4/1-Moist); ; Medium clay; Strong grade of structure, 100-200 mm; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 9 (pH meter);
0.76 - 0.84 m	Dark grey (5Y4/1-Moist); ; Medium clay; Strong grade of structure, 100-200 mm; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Very few (0 - 2 %), Gypseous, , ; Field pH 8.2 (pH meter);

**Morphological Notes**

**Observation Notes**

ALLUVIUM

**Site Notes**

BRENDA STATION

**Observation ID: 1**

**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 - 0.03	8.3A	0.229A	24K	9.2	3.2	1.4				
0.03 - 0.18	9A	0.196A	25K	11.2	2	19				
0.18 - 0.76	9A	0.318A								
0.76 - 0.84	8.2A	1.23A								

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 - 0.03		1.51F			0.13B				4D	11	21	64
0.03 - 0.18		1.05F			0.09B				4D	11	21	64
0.18 - 0.76									4D	12	20	64
0.76 - 0.84									7D	18	14	61

[illegible]

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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_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
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
6_DC	Organic carbon (%) - Dry combustion
7_NR	Total nitrogen (%) - Not recorded
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