

**Project Name:** CAN      **Site ID:** C137      **Observation ID:** 1  
**Project Code:** CAN      **Agency Name:** CSIRO Division of Soils (NSW)

#### Site Information

Desc. By:	H.M. Churchwood	Locality:	Parish Speewa 310M north of south boundary 440M east of west boundary:portion21
Date Desc.:	01/11/56	Elevation:	85 metres
Map Ref.:	Sheet No. : 7627 1:100000	Rainfall:	325
Northing/Long.:	143.6	Runoff:	Slow
Easting/Lat.:	-35.2166666666667	Drainage:	Poorly drained

#### Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Slightly porous, Unconsolidated material (unidentified)

#### Land Form

Rel/Slope Class:	Rolling plains <9m 10-32%	Pattern Type:	Plain
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	0 degrees

#### Surface Soil Condition (dry): Soft

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Endohypersodic Regolithic Hypercalcic Calcarosol	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

All necessary analytical data are available.

#### Site Disturbance:

#### Vegetation:

Tall Strata - Malle shrub, , . \*Species includes - None Recorded

#### Surface Coarse Fragments: No surface coarse fragments

#### Profile Morphology

A2k	0 - 0.1 m	Light brownish grey (10YR6/2-Moist); , 7.5YR54; Light clay; 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Weak consistence; Field pH 8.3 (pH meter);
A	0.1 - 0.18 m	Light brownish grey (10YR6/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Weak consistence; Field pH 8.6 (pH meter);
AB	0.18 - 0.24 m	Greyish brown (10YR5/2-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderately moist; Weak consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
Bk	0.24 - 0.32 m	Pale brown (10YR6/3-Moist); ; Light medium clay; 10-20 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
Bk	0.32 - 0.39 m	Pinkish grey (7.5YR6/2-Moist); ; Medium clay; 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Moderately moist; Weak consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.3 (pH meter);
Bk	0.43 - 0.51 m	Brown (7.5YR5/4-Moist); , 10YR52, 10-20% ; , 10-20% ; Medium clay; 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Angular blocky; Dry; Weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter);
	0.51 - 0.6 m	Brown (7.5YR5/4-Moist); , 10YR52, 2-10% ; , 2-10% ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.6 (pH meter);
	0.6 - 0.67 m	Brown (7.5YR5/4-Moist); , 5YR68, 2-10% ; , 2-10% ; Medium clay (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter);
	0.76 - 0.86 m	Light red (2.5YR6/8-Moist); , 5YR54, 20-50% ; , 20-50% ; Medium clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Weak consistence; Few cutans, <10% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.3 (pH meter);

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- 0.86 - 1.09 m Red (2.5YR5/8-Moist); , 10YR48, 2-10% ; , 2-10% ; Medium clay (Heavy); Moderate grade of structure, 10-20 mm, Subangular blocky; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9 (pH meter);
- 1.19 - 1.3 m Red (2.5YR5/8-Moist); , 2.5YR46, 2-10% ; , 10YR44, 2-10% ; Medium heavy clay (Heavy); , Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Gypseous, , Concretions; Field pH 9 (pH meter);
- 1.57 - 1.85 m Red (2.5YR4/6-Moist); ; Medium heavy clay (Heavy); Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Gypseous, , Soft segregations; Field pH 8.9 (pH meter);
- 1.85 - 2.41 m Light grey (5Y7/2-Moist); , 7.5YR68, 10-20% ; , 10R58, 10-20% ; Heavy clay; Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Common (10 - 20 %), Gypseous, , Concretions; Field pH 8.8 (pH meter);
- 3.05 - 3.2 m Reddish yellow (7.5YR6/8-Moist); , 10R48, 2-10% ; , 7.5YR68, 2-10% ; Sandy medium clay (Heavy); Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7.6 (pH meter);
- 3.58 - 3.81 m Reddish yellow (7.5YR6/8-Moist); , 10R48, 2-10% ; , 7.5YR68, 2-10% ; Sandy medium clay (Heavy); Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 7.9 (pH meter);
- 4.55 - 4.72 m Pinkish grey (7.5YR7/2-Moist); , 10YR48, 10-20% ; , 10YR66, 10-20% ; Sandy medium clay (Heavy); Firm consistence; Common cutans, 10-50% of ped faces or walls coated; Field pH 5.8 (pH meter);
- 5.03 - 5.18 m Pinkish grey (7.5YR7/2-Moist); , 10YR48, 10-20% ; , 10YR66, 10-20% ; Sandy medium clay (Heavy); Very firm consistence; Field pH 7 (pH meter);
- 5.38 - 5.54 m Pinkish grey (7.5YR7/2-Moist); , 10YR48; , 10YR66; Medium heavy clay; Field pH 5.6 (pH meter);

**Morphological Notes**

K4

**Observation Notes**

K2 PARNA:VESICULAR TO 50CM

**Site Notes**

MURRAKOOl

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4.2.11 (NOM)

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#### **Laboratory Test Results:**

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size FS %	Analysis Silt	Clay
0 - 0.1	0.15A							23D	29	23	25
0.1 - 0.18	0.22A							17D	28	26	29
0.18 - 0.24	0.54A							18D	22	23	37
0.24 - 0.32	7.04A							16D	23	15	46
0.32 - 0.39	10.6A							17D	21	18	44
0.43 - 0.51											
0.51 - 0.6	17.6A							16D	18	13	53
0.6 - 0.67	19.7A							16D	17	14	53
0.76 - 0.86	31.1A							18D	20	34	28
0.86 - 1.09								23D	23	13	41
1.19 - 1.3	23A							28D	24	12	36
1.57 - 1.85	12.8A							28D	23	13	36
1.85 - 2.41								18D	21	14	47
3.05 - 3.2								8D	31	18	43
3.58 - 3.81								5D	35	20	40
4.55 - 4.72											
5.03 - 5.18								5D	40	21	34
5.38 - 5.54								4D	30	23	43

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0.43 - 0.51  
0.51 - 0.6  
0.6 - 0.67  
0.76 - 0.86  
0.86 - 1.09  
1.19 - 1.3  
1.57 - 1.85  
1.85 - 2.41  
3.05 - 3.2  
3.58 - 3.81  
4.55 - 4.72  
5.03 - 5.18  
5.38 - 5.54

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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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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
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