

Project Name: CAN
Project Code: CAN **Site ID:** C147 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	H.M. Churchwood	Locality:	See C150 upslope of C148
Date Desc.:	12/12/56	Elevation:	90 metres
Map Ref.:	Sheet No. : 7726 1:100000	Rainfall:	325
Northing/Long.:	143.416666666667	Runoff:	Moderately rapid
Easting/Lat.:	-34.966666666667	Drainage:	Imperfectly 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:	Undulating plains <9m 3-10%	Pattern Type:	Dunefield
Morph. Type:	Open depression (vale)	Relief:	No Data
Elem. Type:	Swale	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	270 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Petrocalcic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Sod grass, , . *Species includes - None recorded
Mid Strata - Malle shrub, , . *Species includes - None recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0.05 - 0.13 m	Red (2.5YR5/8-Moist); ; Sand; Massive grade of structure; Weak consistence; Field pH 7.8 (pH meter);
0.18 - 0.23 m	Red (2.5YR5/6-Moist); ; Sand; Massive grade of structure; Firm consistence; Field pH 8 (pH meter);
0.25 - 0.3 m	Yellowish red (5YR5/8-Moist); ; Sandy light clay (Light); 20-50 mm, Angular blocky; Weak grade of structure, 50-100 mm, Prismatic; Firm consistence; Field pH 9 (pH meter);
0.3 - 0.36 m	Yellowish red (5YR5/8-Moist); ; Sandy light clay (Light); Firm consistence; Field pH 9.6 (pH meter);
0.48 - 0.58 m	Yellowish red (5YR5/8-Moist); ; Sandy light clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, , Concretions; Calcrete, Strongly cemented; Field pH 9.8 (pH meter);
0.66 - 0.71 m	Yellowish red (5YR5/8-Moist); ; Sandy light clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Many (20 - 50 %), Calcareous, , Soft segregations; Calcrete, Very strongly cemented; Field pH 9.7 (pH meter);
0.91 - 1.01 m	Yellowish red (5YR5/8-Moist); ; 2.5YR48, 2-10% ; , 2-10% ; Sandy light clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Calcrete, Strongly cemented; Field pH 9.8 (pH meter);
1.22 - 1.32 m	Red (2.5YR5/8-Moist); ; Sandy clay loam; Firm consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, , Soft segregations; Calcrete, Moderately cemented; Field pH 9.9 (pH meter);
1.37 - 1.47 m	Red (2.5YR5/8-Moist); ; Sandy light clay (Light); Weak consistence; Very few (0 - 2 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, , Concretions; Calcrete, Moderately cemented; Field pH 9.8 (pH meter);
1.68 - 1.78 m	Red (2.5YR4/6-Moist); ; Sandy light clay (Heavy); Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, , Soft segregations; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.8 (pH meter);

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| 1.98 - 2.08 m | Red (2.5YR4/6-Moist); ; Sandy light clay; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.5 (pH meter); |
| 2.59 - 2.74 m | Yellowish red (5YR5/8-Moist); ; Sandy clay loam; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.6 (pH meter); |
| 3.05 - 3.2 m | Yellowish red (5YR5/8-Moist); ; Sandy clay loam (Light); Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Concretions; Field pH 9.6 (pH meter); |
| 3.81 - 3.96 m | Red (2.5YR4/6-Moist); ; Sandy light clay (Light); Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Common (10 - 20 %), Calcareous, , Soft segregations; Field pH 9.5 (pH meter); |
| 4.27 - 4.42 m | Red (2.5YR4/6-Moist); ; Sandy clay loam (Heavy); Firm consistence; Field pH 9.3 (pH meter); |
| 4.57 - 4.72 m | Yellowish red (5YR5/8-Moist); , 7.5YR66, 20-50% ; , 20-50% ; Sandy light clay; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 8.4 (pH meter); |
| 4.82 - 4.98 m | Yellowish red (5YR5/6-Moist); , 5YR46, 20-50% ; , 10YR72, 20-50% ; Sandy medium clay (Light); Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.8 (pH meter); |
| 4.98 - 5.13 m | Yellowish red (5YR5/6-Moist); , 10YR72, 20-50% ; , 20-50% ; Sandy medium clay; Very weak consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.8 (pH meter); |
| 5.28 - 5.43 m | Dark reddish brown (5YR3/4-Moist); , 7.5YR72, 20-50% ; , 20-50% ; Medium clay; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Field pH 7.6 (pH meter); |

Morphological Notes

Observation Notes

PLEISTOCENE AEOLIANITE:VESICULAR TO 60CM:FINE ROOT LINES TO 2M

Site Notes

MURRAKOOL

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[illegible]

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0.3 - 0.36
0.48 - 0.58
0.66 - 0.71
0.91 - 1.01
1.22 - 1.32
1.37 - 1.47
1.68 - 1.78
1.98 - 2.08
2.59 - 2.74
3.05 - 3.2
3.81 - 3.96
4.27 - 4.42
4.57 - 4.72
4.82 - 4.98
4.98 - 5.13
5.28 - 5.43

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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
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