

Project Name: CAN
Project Code: CAN **Site ID:** CP154 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

| | | | |
|------------------------|------------------------------|-------------------|--|
| Desc. By: | P.H. Walker | Locality: | East side of hill:upperslope in erosion gully: |
| Date Desc.: | 01/07/79 | Elevation: | 125 metres |
| Map Ref.: | Sheet No. : 9028 1:100000 | Rainfall: | 1150 |
| Northing/Long.: | 150.575 | Runoff: | Rapid |
| Easting/Lat.: | -34.9388888888889 | Drainage: | No Data |

Geology

| | | | |
|----------------------|----------------------------|------------------------------------|--|
| ExposureType: | Existing vertical exposure | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Unconsolidated material (unidentified) |

Land Form

| | | | |
|-------------------------|----------------------------|------------------------|-------------|
| Rel/Slope Class: | Steep hills 90-300m 32-56% | Pattern Type: | Hills |
| Morph. Type: | Upper-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | Steep |
| Slope: | 12 % | Aspect: | 125 degrees |

Surface Soil Condition (dry): Firm

Erosion: Severe (gully)

Soil Classification

| | | |
|--|--------------------------------|---------------|
| Australian Soil Classification: | Mapping Unit: | N/A |
| Haplic Eutrophic Brown Kandosol | Principal Profile Form: | Um1.41 |
| ASC Confidence: | Great Soil Group: | Alluvial soil |
| All necessary analytical data are available. | | |

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

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

Surface Coarse Fragments:

Profile Morphology

| | | |
|-----|---------------|---|
| A | 0 - 0.05 m | Brown (10YR5/3-Moist); , 10YR56, 0-2% ; , 0-2% ; Fine sandy loam; Massive grade of structure; Firm consistence; Clear change to - |
| | 0.05 - 0.18 m | Brown (10YR5/3-Moist); , 10YR56, 2-10% ; , 2-10% ; Fine sandy loam; Massive grade of structure; Firm consistence; Field pH 6.1 (pH meter); |
| | 0.18 - 0.32 m | Brown (10YR5/3-Moist); , 10YR56, 2-10% ; , 2-10% ; Clay loam, fine sandy; Massive grade of structure; Very strong consistence; |
| | 0.32 - 0.45 m | Brown (10YR5/3-Moist); , 10YR56, 10-20% ; , 10-20% ; Clay loam, fine sandy; Massive grade of structure; Very strong consistence; Field pH 6.3 (pH meter); Clear change to - |
| 11A | 0.45 - 0.55 m | Very dark greyish brown (10YR3/2-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Clay loam; Massive grade of structure; Very strong consistence; Field pH 6.4 (pH meter); |
| 11B | 0.55 - 0.65 m | Very dark greyish brown (10YR3/2-Moist); , 7.5YR56, 10-20% ; , 10-20% ; Clay loam; Massive grade of structure; Very strong consistence; |

Morphological Notes

Observation Notes

45-55CM A HOR OF K2 UNIT:CONTACT WITH UNDERLYIG UNIT 53CM IN BULK DENSITY SAMPLING:55-65CM A-B HOR OF K2 UNIT:

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|------|-----------------|-----------|--------------|----------------------|-------|------|------|
| m | | dS/m | | | | Comol (+)/kg | | | | % |
| 0.05 - 0.18 | 6.1A | 0.03A | 3K | 3.4 | 0.2 | 0.7 | 8.5B | 15.8J | | 4.43 |
| 0.18 - 0.32 | | | | | | | | | | |
| 0.32 - 0.45 | 6.3A | 0.03A | 4.2K | 3.3 | 0.19 | 0.9 | 6.7B | 15.3J | | 5.88 |
| 0.45 - 0.55 | 6.4A | 0.03A | 2.7K | 2 | 0.16 | 0.7 | 10.2B | 15.8J | | 4.43 |

| 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 | | | % | | |
| 0.05 - 0.18 | | 0.86D | | | | | | 1 | 8D | 51 | 20 | 20 |
| 0.18 - 0.32 | | | | | | | | | | | | |
| 0.32 - 0.45 | | 0.85D | | | | | | | 4D | 50 | 20 | 26 |
| 0.45 - 0.55 | | 1.52D | | | | | | | 3D | 47 | 25 | 25 |

[illegible]

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Laboratory Analyses Completed for this profile

| | |
|-----------|---|
| 13_C_FE | Extractable Fe(%) - Method recorded as C |
| 13A1_AL | Oxalate-extractable aluminium |
| 13A1_FE | Oxalate-extractable iron |
| 13C1_AL | Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon |
| 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_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 |
| 15G_C_AL1 | Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B |
| 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 |
| P10_GRAV | Gravel (%) |
| 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 |