

Project Name: CAN
Project Code: CAN **Site ID:** CP202 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

| | | | |
|------------------------|------------------------------|-------------------|--|
| Desc. By: | P.H. Walker | Locality: | Approx 20M downhill from Ginninderra erosion plots |
| Date Desc.: | 01/01/80 | Elevation: | 600 metres |
| Map Ref.: | Sheet No. : 8727 1:100000 | Rainfall: | 640 |
| Northing/Long.: | 149.05 | Runoff: | Rapid |
| Easting/Lat.: | -35.1666666666667 | Drainage: | Imperfectly drained |

Geology

| | | | |
|----------------------|----------|------------------------------------|---|
| ExposureType: | Soil pit | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | No Data | Substrate Material: | Slightly porous, Unconsolidated material (unidentified) |

Land Form

| | | | |
|-------------------------|-----------------------------|------------------------|-----------------|
| Rel/Slope Class: | Undulating hills 90-300m 3- | Pattern Type: | Hills |
| Morph. Type: | Mid-slope | Relief: | 100 metres |
| Elem. Type: | Hillslope | Slope Category: | Gently inclined |
| Slope: | 3 % | Aspect: | 270 degrees |

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|--------------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Bleached-Vertic Eutrophic Grey Chromosol | | Principal Profile Form: | Dy2.42 |
| ASC Confidence: | | Great Soil Group: | Solodic soil |
| All necessary analytical data are available. | | | |

Site Disturbance:

Vegetation: Low Strata - Sod grass, <0.25m, . *Species includes - None recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, , Gravel

Profile Morphology

| | | |
|-----|---------------|---|
| A1 | 0.02 - 0.15 m | Dark brown (10YR3/3-Moist); Light brownish grey (10YR6/2-Dry); ; Fine sandy loam; Weak grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Non-plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, , ; Field pH 5.7 (pH meter); |
| A21 | 0.16 - 0.23 m | Light grey (10YR7/2-Moist); , 10YR56, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Loam; Massive grade of structure; Weak consistence; Non-plastic; Non-sticky; 2-10%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Few (2 - 10 %), Ferruginous, , ; Field pH 5.4 (pH meter); |
| A22 | 0.23 - 0.34 m | Pale brown (10YR6/3-Moist); White (10YR8/1-Dry); , 10YR73, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Loam; Massive grade of structure; Weak consistence; Non-plastic; Non-sticky; 20-50%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Many (20 - 50 %), Ferruginous, , ; Field pH 6.3 (pH meter); |
| B | 0.37 - 0.5 m | Greyish brown (10YR5/2-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Firm consistence; Very plastic; Slightly sticky; Field pH 6.8 (pH meter); |
| B | 0.5 - 0.65 m | Greyish brown (10YR5/2-Moist); , 10YR56, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Firm consistence; Very plastic; Slightly sticky; Field pH 7.1 (pH meter); |
| BC | 0.8 - 0.95 m | Greyish brown (10YR5/2-Moist); ; Light clay; Massive grade of structure; Firm consistence; Very plastic; Slightly sticky; 2-10%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Field pH 7.1 (pH meter); |
| BC | 0.95 - 1.05 m | Light yellowish brown (10YR6/4-Moist); ; Clay loam; Massive grade of structure; Weak consistence; Slightly plastic; Slightly sticky; 10-20%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Field pH 7.4 (pH meter); |
| C | 1.05 - 1.15 m | Greyish brown (10YR5/2-Moist); ; Clay loam, coarse sandy; Massive grade of structure; Firm consistence; Slightly plastic; Slightly sticky; 0-2%, fine gravelly, 2-6mm, subrounded, Gravel, coarse fragments; Field pH 7.6 (pH meter); |

Morphological Notes

Observation Notes

Project Name: CAN
Project Code: CAN Site ID: CP202 Observation ID: 1
Agency Name: CSIRO Division of Soils (NSW)

Site Notes

GINNINDEDERRA

Project Name: CAN
 Project Code: CAN Site ID: CP202 Observation ID: 1
 Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

| Depth | pH | 1:5 EC | Ca | Exchangeable Mg | Cations K | Na | Exchangeable Acidity | CEC | ECEC | ESP |
|-------------|------|--------|-------|-----------------|-----------|-------------|----------------------|-------|------|------|
| m | | dS/m | | | | Cmol (+)/kg | | | | % |
| 0.02 - 0.15 | 5.7A | 0.06A | 0.65K | 0.25 | 1 | 0.04 | 9.8E | 11.8J | | 0.34 |
| 0.16 - 0.23 | 5.4A | 0.06A | | | | | | | | |
| 0.23 - 0.34 | 6.3A | 0.04A | 1.3K | 0.75 | 0.21 | 0.04 | 3.3B | 5.6J | | 0.71 |
| 0.37 - 0.5 | 6.8A | 0.05A | 6.2K | 6.7 | 0.51 | 0.33 | 10.1B | 23.8J | | 1.39 |
| 0.5 - 0.65 | 7.1A | 0.03A | 5.4K | 7.1 | 0.49 | 0.4 | 8.9B | 22.3J | | 1.79 |
| 0.8 - 0.95 | 7.1A | 0.03A | 4.2K | 6.4 | 0.37 | 0.44 | 5.4B | 16.8J | | 2.62 |
| 0.95 - 1.05 | 7.4A | 0.03A | | | | | | | | |
| 1.05 - 1.15 | 7.6A | 0.04A | 3.8K | 7.1 | 0.2 | 0.68 | 3.2B | 15J | | 4.53 |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle GV | Size CS | Analysis FS | Silt | Clay |
|-------------|-------|-----------|----------|---------|---------|---------|--------------|-------------|---------|-------------|------|------|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0.02 - 0.15 | | 1.85D | | | 0.144B | | | 2 | 19D | 30 | 36 | 13 |
| 0.16 - 0.23 | | 0.35D | | | 0.031B | | | 13 | 22D | 25 | 29 | 11 |
| 0.23 - 0.34 | | 0.2D | | | 0.02B | | | 22 | 22D | 23 | 22 | 11 |
| 0.37 - 0.5 | | 0.38D | | | 0.05B | | | | 18D | 14 | 13 | 55 |
| 0.5 - 0.65 | | 0.36D | | | 0.042B | | | 2 | 16D | 15 | 14 | 53 |
| 0.8 - 0.95 | | 0.22D | | | 0.023B | | | 9 | 24D | 20 | 14 | 33 |
| 0.95 - 1.05 | | 0.12D | | | 0.012B | | | 23 | 29D | 20 | 11 | 17 |
| 1.05 - 1.15 | | 0.07D | | | 0.013B | | | 5 | 34D | 23 | 12 | 26 |

| Depth | COLE | Gravimetric/Volumetric Water Contents | | | | | | K sat | K unsat |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|
| m | | Sat. | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar | |
| | | | | | g/g - | m3/m3 | | | mm/h |

0.02 - 0.15
 0.16 - 0.23
 0.23 - 0.34
 0.37 - 0.5
 0.5 - 0.65
 0.8 - 0.95
 0.95 - 1.05
 1.05 - 1.15

Project Name: CAN
Project Code: CAN **Site ID:** CP202 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

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_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 |
| 15G1_H | Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 |
| 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 |
| 7_NR | Total nitrogen (%) - Not recorded |
| 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 |