Project Name: CAN
Project Code: CAN **Site ID:** CP142 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	P.H. Walker	**Locality:**	
Date Desc.:	02/01/79	**Elevation:**	720 metres
Map Ref.:	Sheet No. : S155-16 1:250000	**Rainfall:**	640
Northing/Long.:	149.35	**Runoff:**	No Data
Easting/Lat.:	-35.1111111111111	**Drainage:**	No Data

Geology

ExposureType:	Existing vertical exposure	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Valley flat	**Slope Category:**	Gently inclined
Slope:	2 %	**Aspect:**	330 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Brown Chromosol
ASC Confidence:
All necessary analytical data are available.

Mapping Unit: N/A
Principal Profile Form: Dy2.2
Great Soil Group: Yellow podzolic soil

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

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

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.07 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Massive grade of structure; Firm consistence; Field pH 5.7 (pH meter); Clear change to -
A2	0.07 - 0.17 m	Brown (10YR5/3-Moist); ; Fine sandy loam; Massive grade of structure; Very firm consistence; Clear change to -
B2	0.17 - 0.28 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Very firm consistence; Field pH 5.9 (pH meter);
B2	0.28 - 0.38 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Very firm consistence; Gradual change to -
B3	0.38 - 0.48 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Very strong consistence; Field pH 6 (pH meter); Diffuse change to -
B3C	0.48 - 0.68 m	Strong brown (7.5YR5/6-Moist); ; Light clay; Massive grade of structure; Very strong consistence; Diffuse change to -
C	0.68 - 0.88 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Very strong consistence; Field pH 5.9 (pH meter);
C	0.88 - 1.08 m	Brownish yellow (10YR6/6-Moist); ; Light clay; Massive grade of structure; Very strong consistence;

Morphological Notes

Observation Notes

LATE PLEISTOCENE ALLUVIUM(DOONGALLA UNIT)

Site Notes

SHINGLE CREEK

Project Name: CAN
Project Code: CAN **Site ID:** CP142 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Cmol (+)/kg							%
0 - 0.07	5.7A	0.05A	0.73K	0.71	0.55	0.02	9.1B	11.1J		0.18
0.17 - 0.28	5.9A	0.03A	1.6K	1.6	0.38	0.11	6.4B	10.1J		1.09
0.38 - 0.48	6A	0.02A	1.9K	3	0.31	0.25	8.1B	13.7J		1.82
0.68 - 0.88	5.9A	0.04A	2.8K	4.1	0.21	0.86	5.7B	13.7J		6.28

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.07		1.73D							6D	52	27	15
0.17 - 0.28		0.6D							3D	43	27	27
0.38 - 0.48		0.31D							2D	32	25	41
0.68 - 0.88		0.22D							1D	38	39	32

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m		g/g - m3/m3							mm/h	mm/h
0 - 0.07										
0.17 - 0.28										
0.38 - 0.48										
0.68 - 0.88										

Project Name: CAN
Project Code: CAN **Site ID:** CP142 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

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_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