Project Name: CAN
Project Code: CAN **Site ID:** CP257 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	B.J. Pillans	**Locality:**	Nimmitabel
Date Desc.:	22/10/86	**Elevation:**	880 metres
Map Ref.:	Sheet No. : 850545 1:50000	**Rainfall:**	No Data
Northing/Long.:	149.0666666	**Runoff:**	No Data
Easting/Lat.:	-36.5375 Datum: AGD66	**Drainage:**	Imperfectly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Alluvium

Landform

Rel/Slope Class:	No Data	**Pattern Type:**	Alluvial plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	Gently inclined
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A -0 - 0.1 m Very dark grey (5YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, Polyhedral; Firm consistence;

A 0.2 - 0.3 m Very dark grey (5YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, Polyhedral; Firm consistence;

A 0.4 - 0.5 m Very dark grey (5YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, Polyhedral; Firm consistence;

BK 0.7 - 0.8 m Black (5YR2/1-Moist); ; Medium heavy clay; Moderate grade of structure, Polyhedral; Firm consistence;

BK 1 - 1.1 m Black (5YR2/1-Moist); ; Medium heavy clay; Moderate grade of structure, Polyhedral; Firm consistence;

D 1.5 - 1.6 m Dark yellowish brown (10YR4/4-Moist); Very dark brown (10YR2/2-Moist); ; Sandy clay; Moderate grade of structure, Granular; Firm consistence;

D 2.1 - 2.2 m Dark yellowish brown (10YR4/4-Moist); Very dark brown (10YR2/2-Moist); ; Sandy clay; Massive grade of structure; Firm consistence;

D 2.8 - 2.9 m Dark yellowish brown (10YR4/4-Moist); Very dark brown (10YR2/2-Moist); ; Sandy clay; Massive grade of structure; Firm consistence;

Morphological Notes

A Deep cracks from surface; self-mulching
D stony layers at 167 and 190 cm, workm casts (?) or root channels from above; slickensides

Observation Notes

Basalt alluvium

Site Notes

Monaro basalt investigation. Grassland, pasture, cultivated lucern; along road between Nimmitabel and Dalgety;

local gully up to 4 m deep.
Very gently inclined alluvial plain.

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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 - 0.1	7A	0.08A	34.4G	20.7	1.9	0.28				
0.2 - 0.3	7.5A	0.07A	36.2G	25.8	1	0.46				
0.4 - 0.5	7.9A	0.06A	38.2G	30.6	0.85	0.62				
0.7 - 0.8	8.3A	0.14A	44.1G	33.5	0.82	0.97				
1 - 1.1	8.4A	0.11A	38.9G	30.7	0.72	1				
1.5 - 1.6	8.2A	0.11A	34.6G	32.1	0.63	0.89				
2.1 - 2.2	8.2A	0.06A	33.5G	29.9	0.48	0.84				
2.8 - 2.9	8.1A	0.03A	29.2G	24.6	0.54	0.54				

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 - 0.1		4.18A									
0.2 - 0.3		3.11A									
0.4 - 0.5		3.13A									
0.7 - 0.8	0.46B	1.15A									
1 - 1.1	0.13B	1.44A									
1.5 - 1.6	0.11B	0.32A									
2.1 - 2.2	0.1B	0.18A									
2.8 - 2.9	0.09B	0.12A									

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15D2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
15D2_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15D2_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15D2_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; mautomatic
15I4	CEC measurement - titration of ammonium and chloride ions
19B1	Carbonates - manometric
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
P10_S_0.20	0.20 micron (cumulative %) - Sedigraph
P10_S_1000	1000 micron (cumulative %) - Sedigraph
P10_S_125	125 micron (cumulative %) - Sedigraph
P10_S_2	2 micron (cumulative %) - Sedigraph
P10_S_2000	2000 micron (cumulative %) - Sedigraph
P10_S_250	250 micron (cumlative %) - Sedigraph
P10_S_31.2	31.2 micron (cumulative %) - Sedigraph
P10_S_500	500 micron (cumulative %) - Sedigraph
P10_S_63	63 micron (cumulative %) - Sedigraph