Project Name: CAN
Project Code: CAN **Site ID:** CP246 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Hook, Rosemary	**Locality:**	Hall
Date Desc.:	04/09/86	**Elevation:**	586 metres
Map Ref.:	Sheet No. : 050569 1:50000	**Rainfall:**	No Data
Northing/Long.:	149.0430555	**Runoff:**	No Data
Easting/Lat.:	-35.1636111 Datum: AGD66	**Drainage:**	Poorly drained

Geology

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

Landform

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	15 metres
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	0 %	**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: Dy3.4
Great Soil Group: Yellow podzolic soil

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A12 0.05 - 0.1 m Dark brown (10YR3/3-Moist); ; Silty loam; Moderate grade of structure, 5-10 mm, Granular; Firm consistence;

A12 0.1 - 0.2 m Brown (10YR4/3-Moist); ; Silty loam; Moderate grade of structure, 5-10 mm, Granular; Weak consistence; Gradual, Wavy change to -

A2 0.2 - 0.3 m Brown (10YR5/3-Moist); White (10YR8/2-Dry); ; Sandy clay loam; Massive grade of structure; Firm consistence;

A2 0.3 - 0.38 m Brown (10YR5/3-Moist); White (10YR8/2-Dry); ; Sandy clay loam; Massive grade of structure; Firm consistence; Clear, Wavy change to -

B21 0.38 - 0.48 m Brown (10YR5/3-Moist); Dark red (2.5YR3/6-Dry); ; Heavy clay; Very firm consistence; Very plastic;

B22 0.48 - 0.73 m Yellowish brown (10YR5/8-Moist); ; Heavy clay; Very firm consistence; Very plastic;

B22 0.73 - 0.96 m Yellowish brown (10YR5/8-Moist); ; Heavy clay; Very firm consistence; Very plastic; Gradual change to -

B22 0.73 - 0.96 m Yellowish brown (10YR5/8-Moist); ; Heavy clay; Firm consistence; Very plastic; Gradual change to -

BC 0.96 - 1.1 m Yellowish brown (10YR5/6-Moist); ; Heavy clay; Massive grade of structure; Very plastic;

Morphological Notes

A12 some root mottling
B21 str. Generally weak or mod. ABL
B22 major mottles vertical on cracks and root lines
BC no evidence of weathered rock fabric; a few plant roots to this depth; water accumulated to 20 cm depth in pit after 3 days.

Observation Notes

Site Notes

Ginninderra experimental station toposequence for Rosemary Hooks MSc program. On Hillcrest 250 m west of the Bond/Willett sludge sites. Improved pasture.

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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				%
0.05 - 0.1	4.9A	0.07A	1.6F	0.57	0.67	0.04				
0.1 - 0.2	5.1A	0.03A	0.72F	0.34	0.45	0				
0.2 - 0.3	5.6A	0.02A	0.76F	0.46	0.27	0				
0.3 - 0.38	6.4A	0.02A	0.99F	1.1	0.32	0				
0.38 - 0.48	6.8A	0.02A	2F	2.4	0.37	0.07				
0.48 - 0.73	7.4A	0.03A	2.8F	5	0.33	0.4				
0.73 - 0.96	7.8A	0.08A	4.4F	9.1	0.38	1				
0.96 - 1.1	8.2A	0.13A	6.9F	15.3	0.29	1.6				

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			%	
0.05 - 0.1		2.54A									
0.1 - 0.2		0.76A									
0.2 - 0.3		0.32A									
0.3 - 0.38		0.14A									
0.38 - 0.48		0.19A									
0.48 - 0.73		0.15A									
0.73 - 0.96		0.19A									
0.96 - 1.1		0.22A									

Laboratory Analyses Completed for this profile

15D1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_K	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_MG	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15D1_NA	Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15I4	CEC measurement - titration of ammonium and chloride ions
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