Project Name: **Plant Industry Paired Site/Acidity Study (Peter Randal)**
Project Code: **CSIRO_PI** **Site ID:** **2** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: N.J. McKenzie
Date Desc.: 10/06/98
Map Ref.: GPS
Northing/Long.: 148.0328
Easting/Lat.: -35.2336
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Auger boring, Colluvium

Land Form

Rel/Slope Class: Undulating hills 90-300m 3-
Morph. Type: Mid-slope
Elem. Type: Pediment
Slope: 7 %
Pattern Type: Hills
Relief: 100 metres
Slope Category: Gently inclined
Aspect: 95 degrees

Surface Soil Condition (dry): Firm

Erosion: Minor (sheet)

Soil Classification

Australian Soil Classification:
Red Kandosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.08 m	Brown (7.5YR4/3-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Firm consistence; Field pH 7 (Raupach); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A21	0.08 - 0.25 m	Brown (7.5YR5/3-Moist); Mottles, 7.5YR56, 2-10% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; Field pH 6.5 (Raupach); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A22	0.25 - 0.4 m	Reddish yellow (7.5YR6/6-Moist); Biological mixing, 7.5YR53, 10-20% , 5-15mm, Distinct; Sandy clay loam; Massive grade of structure; Moderately moist; Weak consistence; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.4 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Firm consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	0.8 - 1.1 m	Strong brown (7.5YR5/6-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded platy, dispersed, Metamorphic rock (unidentified), coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), , , ; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A11	Field PSA 60/18/22 (S/Z/C).
A21	Field PSA 60/15/25 .
A22	Field PSA 60/15/25.
B21	Field PSA 46/17/37. pH difficult to tell.
B22	Field PSA 43/17/40. Hints of parna in the B22 with clay rich peds in amongst a more earthy fabric.

Observation Notes

Colluvium from Ordovician Metasediments. Typical Duplex on OM. Hints of parna in the B22 with clay rich peds in amongst a more earthy fabric. Transported parent material.

Site Notes

Line of White Cedars beside Adelong Road. 4m from road.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%

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			%		

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

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Laboratory Analyses Completed for this profile