

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

Site Information

Desc. By: N.J. McKenzie	Locality:
Date Desc.: 10/06/98	Elevation: 300 metres
Map Ref.: GPS	Rainfall: No Data
Northing/Long.: 148.2039	Runoff: No runoff
Easting/Lat.: -35.2325	Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 5 metres
Elem. Type: Terrace flat	Slope Category: Very gently sloped
Slope: 1 %	Aspect: 0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

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

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

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 - 0.1 m	Brown (7.5YR4/2-Moist); ; Silty clay loam; Moderate grade of structure, 20-50 mm, Polyhedral; Moist; Very firm consistence; Field pH 6 (Raupach); Common, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.1 - 0.24 m	Brown (7.5YR4/2-Moist); Biological mixing, 10YR63, 2-10% , 0-5mm, Faint; Light clay; Moderate grade of structure, Polyhedral; Moist; Strong consistence; Field pH 5.5 (Raupach); Common, fine (1-2mm) roots; Gradual, Smooth change to -
A21	0.24 - 0.37 m	Pale brown (10YR6/3-Moist); Very pale brown (10YR7/4-Dry); ; Light clay; Weak grade of structure, Polyhedral; Moderately moist; Very firm consistence; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B1	0.37 - 0.6 m	Brown (7.5YR5/4-Moist); ; Light medium clay; Weak grade of structure, Polyhedral; Moderately moist; Very firm consistence; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.6 - 0.8 m	Strong brown (7.5YR5/5-Moist); ; Light medium clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.6 - 0.8 m	Strong brown (7.5YR5/5-Moist); ; Light medium clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B22	0.8 - 1 m	Brown (7.5YR5/4-Moist); ; Light medium clay; Moderate grade of structure, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

A11	Strong silt test. Field PSA = 38 35 27 (S,Z,C)
A12	Field PSA 30 35 35. Can't determine Structure size.
A21	Field PSA 30 35 35. Can't Determine Structure size. Dry matrix colour not fully dry.
B1	Field PSA 25 35 40. Can't determine Structure size.

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B21 Field PSA 23 35 42. Can't determine Structure size.
B21 Field PSA 23 35 42. Can't determine Structure size.
B22 Field PSA 23 35 42. Can't determine Structure size.

Observation Notes

Alluvium of the Tumut River. Augered to 1m. Moderate pedogenic development in profile (K3?) Weak A2, slight clay increase in yellowing B horizon. B probably continues.

Site Notes

Gocup (Near Tumut, NSW) Adjacent to Poplar Plantation - Paired Plantation / Pasture site.

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Laboratory Test Results:

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

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	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		
m					g/g - m3/m3			mm/h	mm/h

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Laboratory Analyses Completed for this profile