Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AV105** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: C.J. Chartres
Date Desc.: 25/08/88
Map Ref.: Sheet No. : 8025 1:100000
Northing/Long.: 6008900 AMG zone: 55
Easting/Lat.: 393200 Datum: AGD66
Locality:
Elevation: 120 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 0.5 %
Pattern Type: Plain
Relief: 2 metres
Slope Category: Level
Aspect: 30 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Sod grass, <0.25m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam;
A2	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); Reddish brown (5YR5/4-Dry); ; Fine sandy loam;
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Medium clay;
B22	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); ; Medium clay; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions;

Morphological Notes

A2	Not bleached.
B22	Hard CO3 nodules.

Observation Notes

Near edge of local 2m closed depression 200m across. Moira Loam, CO3, like trial site.

Site Notes

Burramine South

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.26B		3.63K	0.88	0.84	0.05				
0.1 - 0.2	4.9B		4.07K	0.89	0.77	0.05				
0.2 - 0.3	5.55B		5.58K	2.12	0.74	0.07				
0.3 - 0.4	6.12B		8.08K	4.03	1.11	0.11				
0.4 - 0.5	6.74B									
0.7 - 0.8	7.69B									

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												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.7 - 0.8												

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
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.7 - 0.8									

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Laboratory Analyses Completed for this profile

13_NR_AL	Extractable Al(%) - Not recorded
13_NR_MN	Extractable Mn(%) - Not recorded
15_NR_CA	Exch. basic cations (Ca++) - 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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct