

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AV71 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	
<b>Date Desc.:</b>	23/08/88	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8125 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	5998100 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	414400 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	2 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0.5 %	<b>Aspect:</b>	230 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	DY
		<b>Great Soil Group:</b>	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 brown (7.5YR3/2-Moist); ; Clay loam;
A3	0.2 - 0.4 m	Reddish brown (5YR4/4-Moist); ; Loamy sand;
B21	0.4 - 0.6 m	Yellowish red (5YR5/6-Moist); , 7.5YR64, 2-10% , 0-5mm, Distinct; , 7.5YR42, 2-10% , 0-5mm, Distinct; Light medium clay; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;
B22	0.6 - 0.8 m	Strong brown (7.5YR5/6-Moist); , 7.5YR74, 2-10% , 5-15mm, Distinct; Medium clay; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;

**Morphological Notes**

A3	Gravelly
B22	CO3 concentrations associated with mottles

**Observation Notes**

Norm Whinray. Limed some paddocks a few years ago - not this one. Patchy yellowed wheat crop, sampled in patch. Duplex red soil, CO3, gravelly sandy A2. RBE.

**Site Notes**

Wilby

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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		%
0 - 0.1	5.02B		5.66K	2.89	0.94	0.24			
0.1 - 0.2	5.25B		14.89K	4.8	1.75	0.46			
0.2 - 0.3	7.17B		19.7K	2.89	2.02	0.52			
0.3 - 0.4	7.48B		26.15K	3.08	2.5	0.62			
0.4 - 0.5	7.45B								
0.7 - 0.8	7.69B								

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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