

**Project Name:** Soils of the Lower Macquarie Valley, New South Wales  
**Project Code:** Macquarie **Site ID:** 204 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

#### Site Information

<b>Desc. By:</b>	N.J. McKenzie	<b>Locality:</b>	
<b>Date Desc.:</b>	13/06/85	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	1:10000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6459100 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	596100 Datum: AGD66	<b>Drainage:</b>	Well drained

#### Geology

<b>ExposureType:</b>	Soil pit	<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>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):** Hardsetting

**Erosion:** Partial, Minor or present (wind); Partial, Minor (sheet)

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	GIN GIN AEOLIAN DEPOSITS
N/A		<b>Principal Profile Form:</b>	Gn3.13
		<b>Great Soil Group:</b>	N/A

#### **ASC Confidence:**

Confidence level not specified

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

#### Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - None Recorded

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.29 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Many, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.29 - 0.7 m	Reddish brown (5YR4/4-Moist); , 10-20% , 5-15mm, Faint; Medium clay; Weak grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Firm consistence; 10-20%, coarse gravelly, 20-60mm, rounded, dispersed, coarse fragments; Field pH 8 (Raupach); Common, very fine (0-1mm) roots; Clear,
2B22	0.7 - 0.95 m	Brown (7.5YR5/4-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Medium, (5 - 10) mm crack; Firm consistence; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.95 - 1.5 m	;

#### Morphological Notes

B21 Remarkable Site - "solution pipes" of CaCO<sub>3</sub> run down along vertical cracks in B22K. This may be a layered soil (A1 and B21 and B22).

#### Observation Notes

Hillside Soil Profile Class

#### Site Notes

Project Name: Soils of the Lower Macquarie Valley, New South Wales  
Project Code: Macquarie Site ID: 204 Observation ID: 1  
Agency Name: CSIRO Division of Soils (ACT)

**Laboratory Test Results:**

[illegible][illegible][illegible]

**Project Name:** Soils of the Lower Macquarie Valley, New South Wales  
**Project Code:** Macquarie **Site ID:** 204 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Laboratory Analyses Completed for this profile**

15C1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm <sup>3</sup>
P3B1GV_15	15 BAR Moisture g/g - Gravimetric of ground sample (<2mm) using pressure plate
P3B4GV_01	0.1 BAR Moisture g/g - Gravimetric of soil clods (Soil Survey Staff,1967)
P5_COLE	Coefficient of Linear Extensibility (Grossman et al. 1968)