

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP367 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Hebden/Mountain View.
<b>Date Desc.:</b>	06/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9133 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	151.04388889	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.34666667	<b>Drainage:</b>	No Data

**Geology**

<b>ExposureType:</b>	Undisturbed soil core	<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>	Hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	100 metres
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	8 %	<b>Aspect:</b>	360 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Natric Grey Kurosol	<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Soloth
Confidence level not specified		

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.1 m	Dark brown (10YR3/3-Moist); ; Loam; 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Many, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.21 m	Pale brown (10YR6/3-Moist); ; Fine sandy loam (Light); 2-10%, medium gravelly, 6-20mm, subangular, coarse fragments; Common, fine (1-2mm) roots; Abrupt, Wavy change to -
B2	0.21 - 0.7 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay; 0-2%, fine gravelly, 2-6mm, subangular, coarse fragments; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
C	0.7 - 1 m	Dark reddish grey (5YR4/2-Moist); , 7.5YR72, 10-20% , 5-15mm, Prominent; Sandy clay (Light); 10-20%, fine gravelly, 2-6mm, angular, coarse fragments; Few, very fine (0-1mm) roots;

**Morphological Notes**

C Mottle is probably due to rock fragments.

**Observation Notes**

Brown duplex soil.

**Site Notes**

Footslope, 200 metres to west of house. Grassland including Themeda species. Rosevale land system.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.5D	0.044A	2.58H	1.48	0.71	0.23			5.52D	
0.1 - 0.2	4.78D	0.057A	2.04H	2.09	0.37	0.63			5.24D	
0.2 - 0.4	4.3D	0.174A	3.36H	8.42	0.35	3.1			15.97D	
0.5 - 0.7	4D	0.383A	3.54H	10.27	0.41	6.12			22.18D	
0.8 - 1	4D	0.446A	3.47H	11.93	0.33	7.25			24.89D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.38A	3J									
0.1 - 0.2												
0.2 - 0.4												
0.5 - 0.7												
0.8 - 1												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar		
			g/g - m3/m3	mm/h	mm/h
0 - 0.1					
0.1 - 0.2					
0.2 - 0.4					
0.5 - 0.7					
0.8 - 1					

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**Laboratory Analyses Completed for this profile**

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9B1	Bicarbonate-extractable phosphorus - manual colour