

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP354 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Roxburgh.
Date Desc.:	05/04/93	Elevation:	No Data
Map Ref.:	Sheet No. : 9033 1:100000	Rainfall:	No Data
Northing/Long.:	150.785	Runoff:	No Data
Easting/Lat.:	-32.33	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Lower-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	5 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Red Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red-brown earth
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Brown (7.5YR4/4-Dry); ; Loam; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots;
A12	0.1 - 0.28 m	Brown (7.5YR4/4-Dry); Brown (7.5YR4/4-Dry); ; Sandy loam; Field pH 6 (Raupach); Common, very fine (0-1mm) roots;
B21	0.28 - 0.7 m	Red (2.5YR4/6-Moist); , 2.5YR30, 0-2% , 0-5mm, Faint; Sandy clay loam (Heavy); Field pH 7.5 (Raupach); Few, very fine (0-1mm) roots;
B22	0.7 - 1 m	Yellowish red (5YR4/6-Moist); , 2.5YR30, 2-10% , 0-5mm, Distinct; Medium clay; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few, very fine (0-1mm) roots;

Morphological Notes

A12	Possible A2.
B21	Texture is grading to a Light Clay (LC). pH taken at 60 cm.
B22	Dark mottles, possibly Manganese?

Observation Notes

Site Notes

Steve Turner. Sampled 3 metres from end of row of grapes. Chardonnay grapes planted in 1971. Darbrook 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	5.2D	0.097A	7.6H	2.85	1.83	0.13			12.55D	
0.1 - 0.2	5.38D	0.05A	8.66H	2.54	1.41	0.16			12.86D	
0.2 - 0.4	5.58D	0.044A	4.99H	3.68	1.12	0.23			10.06D	
0.5 - 0.7	6.12D	0.056A	6.99H	8.5	0.8	1.1			17.41D	
0.8 - 1	6.48D	0.071A	9.51H	11.55	0.82	2.64			24.54D	

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		2.51A	5J									
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	mm/h	mm/h
			g/g - m3/m3		
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 ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) 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