Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP345 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Dartbrook Property.

Date Desc.: Elevation: 04/04/93 No Data Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.84194444 Runoff: No Data -32.14805556 Easting/Lat.: Drainage: No Data

<u>Geology</u>

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

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:Mid-slopeRelief:20 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:5 %Aspect:180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ARed ChromosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Red-brown earth

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.08 m Yellowish brown (10YR5/4-Dry); ; Loamy fine sand; Very weak consistence; Common, fine (1-2mm) roots; Clear change to
A2 0.08 - 0.22 m Light reddish brown (5YR6/4-Dry); ; Fine sandy loam; Weak consistence; Common, fine (1-2mm) roots; Sharp change to
B2 0.22 - 0.5 m Yellowish red (5YR5/8-Dry); ; Light medium clay; Rigid consistence; Common, fine (1-2mm) roots; Sharp change to
C 0.5 - 1 m Red (2.5YR4/6-Dry); , 5YR82, 10-20% , 5-15mm, Distinct; , 7.5YR76; Sandy clay loam; Strong

consistence; , very fine (0-1mm) roots;

Morphological Notes

B2 Would not wet up well to texture.
C Possibly some carbonate??

Observation Notes

Site Notes

South facing slope of West running low ridge. 5-7% slope to South. Dartbrook Land system. Grassy Pasture.

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Laboratory Test Results:

Laboratory	rest Re	Suits:										
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Ou .	ing		Cmol (+						%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	5.52D 5.99D 6.67D 7.18D 7.44D		4.51H	1.11 0.95 2.13 1.77 2.58	0.77 0.49 0.57 0.18 0.22	0.01 0.05 0.18 0.33 1.69				7.94D 6.03D 11.91E 14.65E 16.11E)	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	l Bulk Density	Pa GV	rticle CS	Size FS	Analys Silt	is Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.73A	2J									
Depth	COLE		Gravimetric/Volumetric V			Vater Contents			K sat		K unsat	
m		Sat.	0.05 Bar	0.1 Bar 0.5 Bar g/g - m3/m		1 Bar		Bar	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 15E1_K 15E1_MG 15E1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

pH of 1:5 soil/1M potassium chloride extract - direct Organic carbon - Walkley and Black 4C1

6A1

9B1 Bicarbonate-extractable phosphorus - manual colour