Project Name: Hunter Valley Soil Survey

Project Code: нν Site ID: **CP390** Observation ID: 1

Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

C.J. Chartres Locality: Ashman's Brokerd.

Desc. By: Date Desc.: Elevation: No Data 08/04/93 Sheet No.: 9132 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 151.27305556 Runoff: No Data Easting/Lat.: -32.77 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Elem. Type: Mid-slope Relief: No Data No Data **Slope Category:** No Data Slope: 8 % Aspect: 360 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Red Dermosol 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

A1	0 - 0.1 m	Brown (7.5YR5/4-Dry); ; Sandy clay loam; 0-2%, medium gravelly, 6-20mm, rounded, Quartzite, coarse fragments; Gradual, Wavy change to -
AB	0.1 - 0.2 m	Brown (7.5YR4/4-Moist); , 7.5YR46, 2-10% , 5-15mm, Distinct; Light clay; 0-2%, fine gravelly, 2-6mm, coarse fragments; Gradual, Wavy change to -
B21	0.2 - 0.4 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, coarse fragments; Gradual, Smooth change to -
B22	0.4 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Light medium clay; 0-2%, fine gravelly, 2-6mm, coarse fragments; Gradual, Smooth change to -
Bk	0.6 - 1 m	Brownish yellow (10YR6/6-Moist); , 7.5YR46, 2-10% , 5-15mm, Distinct; Light clay (Light); 10-20%, medium gravelly, 6-20mm, rounded, Quartzite, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations;

Morphological Notes

Observation Notes

Red gradational/or duplex soil.

Site Notes

Tyrell's. Low undulating hills. Surface appears to have been limed, but not in records. Contour Block.

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Laboratory Test Results:

Laboratory			_									
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Oa .	mg	K	Cmol (+						%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	7.3D 6.65D 5.65D 7.5D 7.52D	0.088A 0.056A 0.165A	14.66H 13.31H 9.91H 16.49H 20.18H	2.64 3.08 4.42 6 6.47	1.27 0.54 0.28 0.29 0.37	0.18 0.18 0.42 0.74 1.18			1 1 2	8.77E 7.13E 5.05E 3.52E 8.21E)))	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Density	Pa GV	rticle CS	FS	Analysi 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		1.3A	29J									
Depth	COLE Gravimetric/Volumetric Water Contents K sat K ui										K unsa	at
m	OOLL	Sat.	0.05 Bar	0.1 Bar	0.5 Bar /g - m3/m	1 Bar	5 Bar 15	Bar	mm/		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