Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP383** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	C.J. Chartres	**Locality:**	Sof Broke (?).
Date Desc.:	08/04/93	**Elevation:**	No Data
Map Ref.:	Sheet No. : 9132 1:100000	**Rainfall:**	No Data
Northing/Long.:	151.06305556	**Runoff:**	No Data
Easting/Lat.:	-32.85111111	**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:**	No Data
Morph. Type:	Simple-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Steep
Slope:	40 %	**Aspect:**	270 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Yellow Kurosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Yellow podzolic soil

Site Disturbance:

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Greyish brown (10YR5/2-Dry); ; Loamy coarse sand; 10-20%, coarse gravelly, 20-60mm, subangular tabular, Sandstone, coarse fragments; Gradual, Smooth change to -
A12	0.1 - 0.2 m	Greyish brown (10YR5/2-Dry); ; Loamy coarse sand; 2-10%, cobbly, 60-200mm, subangular tabular, Sandstone, coarse fragments; Gradual, Smooth change to -
A2	0.2 - 0.5 m	Light yellowish brown (10YR6/4-Dry); ; Sandy loam; 2-10%, cobbly, 60-200mm, subangular tabular, Sandstone, coarse fragments; Clear, Smooth change to -
B2	0.5 - 0.7 m	Brownish yellow (10YR6/6-Dry); , 7.5YR56; Light clay; 2-10%, cobbly, 60-200mm, subangular tabular, Sandstone, coarse fragments; Abrupt, Wavy change to -
	0.7 - m	;

Morphological Notes

A12	Boulders present.
B2	Texture is LC but also sandy. Sample number 5 = rock.

Observation Notes

Site Notes

Lees Pinch land system. Eucalypt woodland with scattered grass and srubs. Limited soil cover.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.7D	0.042A	1.8H	2.45	0.33	0.14			5.17D	
0.1 - 0.2	4.88D	0.033A	1.89H	2.81	0.35	0.13			5.44D	
0.2 - 0.4	4.95D	0.026A	1.14H	2.39	0.24	0.22			4.13D	
0.5 - 0.6	4.75D	0.03A	1.05H	4.96	0.31	0.4			7D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.46A	1J									
0.1 - 0.2												
0.2 - 0.4												
0.5 - 0.6												

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.4										
0.5 - 0.6										

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Laboratory Analyses Completed for this profile

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca2+,Mg2+,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