Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP346** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	C.J. Chartres	**Locality:**	Lower Rossgole.
Date Desc.:	04/04/93	**Elevation:**	No Data
Map Ref.:	Sheet No. : 9033 1:100000	**Rainfall:**	No Data
Northing/Long.:	150.79194444	**Runoff:**	No Data
Easting/Lat.:	-32.14111111	**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:	Steep hills 90-300m 32-56%	**Pattern Type:**	Escarpment
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Moderately inclined
Slope:	15 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Red Kurosol

ASC Confidence:
Confidence level not specified

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments: 0-2%, stony, 200-600mm, subrounded, Basalt

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Dry); ; Loamy coarse sand; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Sharp change to -
A2	0.1 - 0.7 m	Pale brown (10YR6/3-Dry); ; Loamy sand (Heavy); 50-90%, coarse gravelly, 20-60mm, Quartz, coarse fragments;
B2	0.7 - 1 m	Yellowish red (5YR4/6-Dry); ; Medium clay; 10-20%, medium gravelly, 6-20mm, coarse fragments;

Morphological Notes

A1	With sandstone (SST) conglomerate.
A2	With sandstone and basalt.
B2	(Rock)/gravels below.

Observation Notes

Soil type: Red duplex?

Site Notes

Grass pasture, relatively little improvement or fertiliser. Could be on fan depostits to rock. Walsh. Lees Pinch land system.

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP346 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.1D	0.046A	5.26H	1.16	0.41	0.08			7.06D	
0.1 - 0.2	5.31D	0.023A	2.29H	0.72	0.39	0.26			3.78D	
0.2 - 0.4	6.3D	0.068A	2.36H	0.63	0.29	0.06			3.35D	
0.8 - 1	4.32D	0.035A	2.49H	4.57	0.52	0.14			8.25D	

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		1.52A	4J									
0.1 - 0.2												
0.2 - 0.4												
0.8 - 1												

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										
0.8 - 1										

Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP346** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

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