Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP361** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: C.J. Chartres
Date Desc.: 06/04/93
Map Ref.: Sheet No. : 9033 1:100000
Northing/Long.: 150.74
Easting/Lat.: -32.32888889
Locality: Wynot property, near Wylong.
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Fan
Slope: 8 %
Pattern Type: No Data
Relief: No Data
Slope Category: Gently inclined
Aspect: 90 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Grey Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Solodic soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR5/2-Dry); ; Loamy coarse sand; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Common, fine (1-2mm) roots; Clear, Smooth change to -
A2	0.1 - 0.6 m	Pinkish grey (7.5YR7/2-Dry); ; Loamy coarse sand; 50-90%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.6 - 0.7 m	Grey (10YR6/1-Moist); , 10YR58, 20-50% , 15-30mm, Prominent; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual, Smooth change to -
B22	0.7 - 1 m	; Sandy clay; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments;

Morphological Notes

B21 Very gravelly at top of B horizon. Becomes stonier with depth.

Observation Notes

Soil type: Yellow duplex.

Site Notes

Keagan. 100 metres East of house. Pasture - scattered trees. Musswellbrook 1:100 000 map sheet. S Y Land system. Wappniguy boundary.

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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	4.85D	0.027A	1.35H	0.62	0.31	0.02			2.49D	
0.1 - 0.2	5.2D	0.017A	0.96H	0.77	0.17	0.1			2.03D	
0.2 - 0.4	5.55D	0.017A	0.63H	0.99	0.11	0.17			1.92D	
0.6 - 0.7	6.4D	0.063A	0.04H	3.72	0.24	1.37			5.38D	
0.8 - 1	6.42D	0.087A	0.41H	6.02	0.38	2.56			9.38D	

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		1.44A	1J									
0.1 - 0.2												
0.2 - 0.4												
0.6 - 0.7												
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									
0.6 - 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 (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