Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP379 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Date Desc.: C.J. Chartres Locality: Belford. Elevation: 07/04/93 1 metres Sheet No.: 9132 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 151.27611111 Runoff: No Data -32.60888889 Easting/Lat.: 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: Undulating low hills 30-90m 3- Pattern Type:

10%

Morph. Type:Lower-slopeRelief:30 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:5 %Aspect:360 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Dry); ; Loamy sand; Many, fine (1-2mm) roots; Abrupt change to -
A2	0.1 - 0.18 m	Brown (10YR5/3-Dry); ; Loamy sand; Common, very fine (0-1mm) roots; Clear change to -
B21	0.18 - 0.4 m	Dark greyish brown (10YR4/2-Dry); ; Sandy loam; Few, very fine (0-1mm) roots; Gradual change to -
B22	0.4 - 0.6 m	Dark yellowish brown (10YR4/4-Dry); ; Sandy loam; Few, very fine (0-1mm) roots; Gradual change to -
2	0.6 - 0.9 m	Light brownish grey (10YR6/2-Dry); ; Loamy sand; Few, very fine (0-1mm) roots;
2	0.9 - 1 m	Dark yellowish brown (10YR4/6-Moist); , 10YR52, 10-20% , 5-15mm, Distinct; Medium clay; Few, very fine (0-1mm) roots;

Hills

Morphological Notes

Sand filled channels (old roots?) through profile, going into clay at 90-100cm.

Observation Notes

Gradational profile.

Site Notes

Landen. Kikiyu pasture.

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Laboratory Test Results:

Laboratory rest Results.													
Depth pH		1:5 EC	Exchangeable Ca Mg		Cations K	Na	Exchangeable Acidity	CEC		ECEC		ESP	
m	dS/m				K	Cmol (+)/kg						%	
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.6	5.92D 5.42D 5.82D 6.18D	0.402A 0.401A	10.09H 6.06H 5.04H	5.96 4.48 2.7 3.05	3.99 3.22 2.16 2.47	0.42 0.58 0.43 0.67			1: 1 1	9.24D 8.48D 1.42D 1.28D)))		
0.7 - 0.8 0.9 - 1	7.1D 5.9D	0.22A 0.561A	2.7H 5.95H	1.26 4.13	0.96 6.46	0.43 1.41				5.35D 7.95D			
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	I Bulk Density	Pa GV	rticle CS	Size FS	Analysi Silt	s Clay	
m	%	%	mg/kg	%	%	%	Mg/m3			%			
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.6 0.7 - 0.8 0.9 - 1		4.4A	102J										
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsat									ıt	
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3							mm/	mm/h		mm/h	

0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.6 0.7 - 0.8 0.9 - 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