Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP377 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Belford. Date Desc.: Elevation: 07/04/93 No Data Map Ref.: Sheet No.: 9132 1:100000 Rainfall: No Data Northing/Long.: 151.28611111 Runoff: No Data Easting/Lat.: -32.65805556 Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: Very steep low hills 30-90m 56- Pattern Type:

100%

Morph. Type: Crest Relief:

Elem. Type: Hillcrest Slope Category: Very gently sloped

Slope: 1 % Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABrown KurosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Soloth

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Α1 0 - 0.1 m Pale brown (10YR6/3-Dry); Loamy coarse sand; 0-2%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; Many, fine (1-2mm) roots; Gradual, Smooth change to -A2 0.1 - 0.2 m Pink (7.5YR7/4-Dry); ; Loamy coarse sand; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few, fine (1-2mm) roots; Abrupt, Irregular change to B21 0.2 - 0.7 m Yellowish brown (10YR5/8-Dry); , 2.5YR58, 2-10% , 0-5mm, Distinct; Medium clay; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few, coarse (>5mm) roots; Gradual, Smooth change to -B22 0.7 - 1 m Light yellowish brown (10YR6/4-Moist); , 2.5YR58, 20-50% , 0-5mm, Prominent; Medium clay; 2-

Hills

No Data

10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few, coarse (>5mm)

Morphological Notes

A2 Very irregular boundary.

Observation Notes

Red duplex soil.

Site Notes

Sclerophyllous woodland - spotted gum, with grass understorey.

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Laboratory Test Results:

Laboratory Test Results:												
Depth	pН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m		9		Cmol (+						%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	4.12D 4.62D 4.28D 4.12D 4.8D	0.04A 0.023A 0.102A 0.259A 0.52A	0.19H	0.63 0.99 6.67 5.97 6.96	0.2 0.12 0.34 0.12 0.17	0.18 0.17 1.2 2.54 4.48				1.91D 1.72D 9.51D 9.58D 12.73D		
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	rticle CS		Analysi	is Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.64A	2J									
Depth	COLE		Gravimetric/Volumetric Water C				tents		Кs	at	K unsa	at
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm		mm/h	1
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