Project Name: Hunter Valley Soil Survey

Project Code: CP356 Observation ID: 1 Site ID:

CSIRO Division of Soils (ACT) Agency Name:

Site Information

Roxburgh. Desc. By: C.J. Chartres Locality: Date Desc.: Elevation: 05/04/93 No Data Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.78611111 Runoff: No Data -32.37 Easting/Lat.: Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data Pattern Type: Low hills Morph. Type: Elem. Type: Upper-slope Relief: 30 metres

Slope Category: Moderately inclined Hillslope

No Data 10 % Aspect: Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Red Dermosol Principal Profile Form: N/A **ASC Confidence: Great Soil Group:** Euchrozem

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m Strong brown (7.5YR4/6-Dry); ; Sandy clay loam, fine sandy; Field pH 6.5 (Raupach); Few, medium (2-5mm) roots; Clear, Smooth change to -A12 0.1 - 0.2 m Yellowish red (5YR4/6-Moist); ; Sandy clay loam, fine sandy; 0-2%, medium gravelly, 6-20mm, coarse fragments; Field pH 8.5 (Raupach); Few, medium (2-5mm) roots; Clear, Wavy change to Red (2.5YR4/6-Moist); ; Light clay; Few, medium (2-5mm) roots; Gradual, Wavy change to -B21 0.2 - 0.4 m B22 0.4 - 0.8 m Red (2.5YR4/8-Moist); ; Light medium clay (Heavy); 2-10%, coarse gravelly, 20-60mm, subangular, Andesite, coarse fragments; Field pH 9 (Raupach); Clear, Wavy change to вс 0.8 - 1 m Very pale brown (10YR7/4-Moist); , 5YR58, 10-20% , 5-15mm, Prominent;

Morphological Notes

Clacareous rock? Andesite? Parent material is possibly andesite.

Observation Notes

Site Notes

200 metres from hill crest. 5 cores from drip lines - over approximately 6 metres.

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Laboratory Test Results:

Depth	Depth pH		Exchange				Exchangeable	CEC		ECEC		ESP
m		dS/m	Ca	Mg	К	Na Cmol (+	Acidity)/kg					%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	7.09D 7.3D 7.55D 7.62D 7.7D	0.187A 0.231A 0.185A	17.4H 18.46H 18.74H 17.11H 13.26H	5.18 5.33 4.59 3.69 4.09	1.43 1.15 1.12 0.74 0.64	0.2 0.41 0.57 0.58 0.53			2	24.21[25.36[25.02[22.13[19.52[
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Pa GV	rticle CS	Size FS %	Analysi Silt	s Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.66A	8J				٠					
Depth m 0 - 0.1	COLE	Sat.	Gravimetric/Volumetric Water Contents 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 I g/g - m3/m3					Bar		K sat K unsa		

0.1 - 0.2

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