

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP363 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Musswellbrook.
Date Desc.:	06/04/93	Elevation:	No Data
Map Ref.:	Sheet No. : 9033 1:100000	Rainfall:	No Data
Northing/Long.:	150.87388889	Runoff:	No Data
Easting/Lat.:	-32.31388889	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:	No Data	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	%	Aspect:	180 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/2-Dry); ; Fine sandy loam (Heavy); 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Clear, Smooth change to -
B21	0.1 - 0.2 m	Brown (10YR4/3-Dry); ; 7.5YR44, 2-10% , 0-5mm, Faint; Medium heavy clay; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments; Gradual, Wavy change to -
B22	0.2 - 0.4 m	Brown (10YR4/3-Dry); ; Medium heavy clay; 0-2%, medium gravelly, 6-20mm, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Gradual, Smooth change to -
B1c	0.4 - 1 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; 0-2%, medium gravelly, 6-20mm, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous;

Morphological Notes

B22 Some carbonate in one core.

Observation Notes

Soil type: brown duplex.

Site Notes

Tall grass pasture, with no trees.

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[illegible]

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Laboratory Analyses Completed for this profile

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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