Project Name: Hunter Valley Soil Survey

Project Code: Site ID: **CP363** Observation ID: 1

CSIRO Division of Soils (ACT) Agency Name:

Site Information

Desc. By: C.J. Chartres Locality: Musswellbrook. Date Desc.: Elevation: 06/04/93 No Data Sheet No.: 9033 Map Ref.: 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 **Substrate Material:** No Data Geol. Ref.: No Data

Land Form

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

Slope Category: Very gently sloped Hillslope Aspect: 180 degrees Slope:

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

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 -Brown (10YR4/3-Dry); , 7.5YR44, 2-10% , 0-5mm, Faint; Medium heavy clay; 0-2%, medium R21 0.1 - 0.2 m gravelly, 6-20mm, Quartz, coarse fragments; Gradual, Wavy change to Brown (10YR4/3-Dry); ; Medium heavy clay; 0-2%, medium gravelly, 6-20mm, coarse B22 0.2 - 0.4 m fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Soil matrix is Slightly calcareous; Gradual, Smooth change to -В1с Yellowish brown (10YR5/4-Moist); ; Medium clay; 0-2%, medium gravelly, 6-20mm, coarse 0.4 - 1 m fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; Soil matrix is Moderately calcareous;

Morphological Notes

Some carbonate in one core.

Observation Notes

Soil type: brown duplex.

Site Notes

Tall grass pasture, with no trees.

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Laboratory Test Results:

Laboratory rest Results.										
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECE	C ESP
m		dS/m	Ca	Mg	K	Na Cmol (Acidity +)/kg			%
0 - 0.05 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	5.27D 7.6D 7.82D 8D 7.9D	0.525A	12.91H 10.16H 9.94H	5.14 13.05 13.85 18.91 14.59	0.77 0.63 0.14 0.52 0.28	0.66 3.44 5.45 14.81 10.63			13.43 30.04 29.62 44.18 31.84	ID PD BD
Depth	CaCO3	Organic	Avail.	Total	Total				rticle Size	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	Silt Clay
0 - 0.05 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.66A	1J							
Depth	COLE		Grav	/imetric/Vo	olumetric \	Water Co	ntents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h
0 - 0.05 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