Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP359 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Roxburgh. Date Desc.: Elevation: No Data 05/04/93 Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.78805556 Runoff: No Data Easting/Lat.: -32.31194444 Drainage: No Data

<u>Geology</u>

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

**Land Form** 

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:Valley flatSlope Category:LevelSlope:%Aspect:No Data

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ARed DermosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Prairie soil

Confidence level not specified

Site Disturbance:

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

A1 0 - 0.2 m Dark brown (10YR3/3-Moist); ; Sandy clay loam, fine sandy (Light); Many, fine (1-2mm) roots;

Gradual, Smooth change to -

A 0.2 - 0.4 m Dark brown (7.5YR3/2-Moist); ; Sandy clay loam, fine sandy (Light); Many, fine (1-2mm) roots;

Gradual, Smooth change to -

AC 0.4 - 0.7 m Brown (7.5YR4/2-Moist); ; Fine sandy loam; Common, very fine (0-1mm) roots; Gradual, Smooth

change to -

C 0.7 - 1 m Brown (7.5YR4/4-Moist); ; Fine sandy loam; Common, very fine (0-1mm) roots;

**Morphological Notes** 

AC horizon is uncertain.

Observation Notes

Prarie soil with no clear B horizon.

Site Notes

Lower terrace of Hunter Valley. Pasture, phalaris. Less developed than soil on next terrace up.

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## **Laboratory Test Results:**

Depth	рН	1:5 EC	Exchangeable Cations			Exchangeable		CEC		ECEC		ESP
m	·	dS/m	Ca	Mg	K	Na Cmol (+	Acidity -)/kg					%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	6.35D 6.28D 6.4D 6.7D 6.8D	0.07A 0.067A 0.057A	17.15H 19.29H 19.31H 18.59H 17.26H	8.36 8.63 7.92 7.83 7.12	1.41 0.73 0.34 0.15 0.19	0.32 0.39 0.45 0.41 0.4			2	27.27[ 29.06[ 28.04[ 26.98[ 24.98[	) ) )	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	I Bulk Density	Particle Size			•	is Clay
m	%	%	mg/kg	%	%	%	Mg/m3	•		%	•	J,
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.97A	24J									
Depth	COLE	Gravimetric/Volumetric Water Contents							Ksat Kun		K uns	at
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	1
0 - 0.1 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