Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP388 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Alermain air sampling site.

Date Desc.: Elevation: 08/04/93 No Data Sheet No.: 9132 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 151.43388889 Runoff: No Data Easting/Lat.: -32.80388889 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:No DataPattern Type:No DataMorph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:1 %Aspect:360 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:N/AASC Confidence:Great Soil Group:Soloth

Confidence level not specified

Site <u>Disturbance:</u>

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

A1 0 - 0.08 m Brown (10YR5/3-Dry); ; Loamy fine sand; Many, fine (1-2mm) roots; Gradual, Smooth change

A2 0.08 - 0.2 m Light yellowish brown (10YR6/4-Dry); ; Loamy fine sand; Common, very fine (0-1mm) roots;

Clear, Smooth change to 
B21 0.2 - 0.6 m Brownish yellow (10YR6/6-Dry); ; Fine sandy loam; Few, very fine (0-1mm) roots; Clear,

Smooth change to 
Strong brown (7.5YR5/6-Moist); , 10YR63; , 5YR58; Fine sandy clay loam (Heavy); Few, fine

(1-2mm) roots;

**Morphological Notes** 

**Observation Notes** 

Yellowish gradational soil.

**Site Notes** 

Low undulating hills. Crest site. Grass and trees.

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## **Laboratory Test Results:**

Laboratory Test Results.												
Depth	рН	1:5 EC	Exchangeab Ca Mg		Cations K		Exchangeable Na Acidity			ECEC		ESP
m		dS/m	Ca I	wig	ĸ	Na Cmol (+	Acidity -)/kg					%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	4.48D 4.25D 4.4D 4.2D 4.1D	0.06A 0.036A 0.026A 0.072A 0.105A	0.53H	0.79 0.51 1.3 3.53 5.67	0.14 0.1 0.28 0.22 0.18	0.15 0.15 0.44 0.73 1.55				2.87D 2.22D 3.28D 6.07D 8.67D	) )	
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Tota K %	I Bulk Density Mg/m3	Pa GV	article CS	Size FS %	-	is Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		1.76A	3J									
<b>Depth m</b> 0 - 0.1	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	olumetric \ 0.5 Bar /g - m3/m	1 Bar	ntents 5 Bar 15 I	3ar	K s		K unsa	

<sup>0.1 - 0.2</sup> 

<sup>0.1 - 0.2</sup> 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