

**Project Name:** Hunter Valley Soil Survey  
**Project Code:** HV **Site ID:** CP344 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (ACT)

**Site Information**

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	Dartbrook.
<b>Date Desc.:</b>	04/04/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9033 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	150.845	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-32.14888889	<b>Drainage:</b>	No Data

**Geology**

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

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	20 metres
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	225 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Red Chromosol		<b>Principal Profile Form:</b>	N/A
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Red-brown earth
Confidence level not specified			

**Site Disturbance:**

**Vegetation:**

**Surface Coarse Fragments:** No surface coarse fragments

**Profile Morphology**

A1	0 - 0.12 m	Brown (7.5YR4/4-Dry); ; Fine sandy loam (Heavy); Very weak consistence; Common, fine (1-2mm) roots;
B21	0.12 - 0.2 m	Reddish brown (5YR4/4-Dry); ; Medium clay; Strong consistence; Common, very fine (0-1mm) roots;
B22	0.2 - 0.42 m	Dark reddish brown (5YR3/4-Dry); ; Medium clay; Very firm consistence; Common, very fine (0-1mm) roots;
C	0.42 - 1 m	Red (2.5YR4/6-Dry); , 2.5YR64; Light clay; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Few, very fine (0-1mm) roots;

**Morphological Notes**

B21	Pedal
B22	Variable depth to C horizon, from 42-55cm.

**Observation Notes**

Soil type: Red Brown earth? - Terra Rossa. (Dr.) Parent Material probably Limestone.

**Site Notes**

Dartbrook land system. Alan Bird. Lucerne pasture.

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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 <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) 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