Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP372 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Glen View, flat - north of railway.

 Date Desc.:
 07/04/93
 Elevation:
 No Data

 Map Ref.:
 Sheet No.: 9133
 1:100000
 Rainfall:
 No Data

 Northing/Long.:
 151.12305556
 Runoff:
 No Data

Easting/Lat.: -32.46888889 Drainage: Imperfectly drained

<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:Low hillsMorph. Type:No DataRelief:30 metresElem. Type:FootslopeSlope Category:LevelSlope:1 %Aspect:180 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AEndohypersodic Class Undetermined Grey VertosolPrincipal Profile Form:N/A

ASC Confidence: Great Soil Group: Solodic soil

Confidence level not specified

Site <u>Disturbance:</u>

Vegetation:

**Surface Coarse Fragments:** 

**Profile Morphology** 

A1 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); ; Light clay; Many, fine (1-2mm) roots; Clear, Smooth

3

B21 0.1 - 0.4 m Dark greyish brown (10YR4/2-Moist); , 10YR63, 10-20% , 5-15mm, Distinct; Light clay;

Common, very fine (0-1mm) roots; Gradual, Smooth change to -

B22 0.4 - 0.7 m Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Few, very fine (0-1mm) roots;

Gradual, Smooth change to -

B23 0.7 - 1 m Light olive brown (2.5Y5/6-Moist); , 2.5Y44, 2-10% , 5-15mm, Faint; Light medium clay; Few,

very fine (0-1mm) roots;

### **Morphological Notes**

## **Observation Notes**

Brown clay soil?

## Site Notes

Paspalum pasture and other grasses, with scattered eucalypts.

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# **Laboratory Test Results:**

| Laboratory Test Results:                                  |  |  |                          |  |                                     |                                   |          |          |               |  |                |            |
|---|--|--|--------------------------|--|-------------------------------------|-----------------------------------|----------|----------|---------------|--|----------------|------------|
| Depth   | рН                                       |  |                          | Exchangeable Cati<br>Ca Mg K             |                                     | Exchangeab<br>Na Acidity          |          | CEC      | CEC ECEC      |  | ESP            |            |
| m   |  | dS/m   | <b>5</b> 4               | 9  |                                     | Cmol (                            |          |          |               |  |                | %          |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.4<br>0.5 - 0.7<br>0.8 - 1 | 4.78D<br>5.7D<br>5.92D<br>6.02D<br>6.02D | 0.161A<br>0.109A<br>0.172A<br>0.831A<br>1.386A | 7.24H<br>5.31H<br>5.79H  | 11.25<br>11.04<br>8.69<br>12.43<br>12.47 | 0.97<br>0.61<br>0.34<br>0.42<br>0.3 | 1.05<br>1.3<br>2.14<br>7.41<br>11 |          |          | 2             | 20.7D<br>20.24E<br>16.5D<br>26.05E<br>29.73E | )<br>)<br>)    |            |
| Depth<br>m  | CaCO3                                    | Organic<br>C<br>%                              | Avail.<br>P<br>mg/kg     | Total<br>P<br>%                          | Total<br>N<br>%                     | Tota<br>K<br>%                    |          | Pa<br>GV | article<br>CS | Size<br>FS<br>%                              | Analys<br>Silt | is<br>Clay |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.4<br>0.5 - 0.7<br>0.8 - 1 |  | 4.54A  | 4J                       |  |                                     |                                   |          |          |               |  |                |            |
| Depth   | COLE                                     |  | Gravimetric/Volumetric V |  |                                     | Vater Contents                    |          |          | K sat         |  | K unsat        |            |
| m   |  | Sat.   | 0.05 Bar                 | 0.1 Bar                                  |                                     | 1 Bar<br>3                        | 5 Bar 15 | Bar      | mm/h          |  | mm/h           |            |
| 0 - 0.1<br>0.1 - 0.2<br>0.2 - 0.4<br>0.5 - 0.7<br>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