Project Name: **Hunter Valley Soil Survey**
Project Code: **HV** **Site ID:** **CP373** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: C.J. Chartres
Date Desc.: 07/04/93
Map Ref.: Sheet No. : 9133 1:100000
Northing/Long.: 151.11888889
Easting/Lat.: -32.46
Locality: Glen View.
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Flat
Elem. Type: Scroll
Slope: 2 %
Pattern Type: Alluvial plain
Relief: 3 metres
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Tenosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: Alluvial soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (10YR4/3-Moist); ; Sand; Field pH 6 (Raupach); Many, fine (1-2mm) roots; Gradual, Smooth change to -
AC	0.1 - 0.5 m	Dark yellowish brown (10YR4/4-Moist); ; Sand; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Clear, Smooth change to -
2	0.5 - 0.9 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Few, very fine (0-1mm) roots;

Morphological Notes

2 Darker layer.

Observation Notes

Soil type: sand.

Site Notes

Irrigated lucerne pasture. River flat, undulating 1-2 metres.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.87D	0.045A	3.83H	1.71	0.25	0.18			5.98D	
0.1 - 0.2	5.2D	0.034A	3.81H	1.55	0.11	0.19			5.7D	
0.2 - 0.4	5.7D	0.031A	5.29H	2.18	0.09	0.28			7.85D	
0.5 - 0.7	5.72D	0.026A	10.89H	3.67	0.09	0.87			15.53D	
0.8 - 1	5.82D	0.031A	10.57H	2.53	0.07	0.36			13.54D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.62A	4J									
0.1 - 0.2												
0.2 - 0.4												
0.5 - 0.7												
0.8 - 1												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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