

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP387 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Keinbah.
Date Desc.:	08/04/93	Elevation:	No Data
Map Ref.:	Sheet No. : 9132 1:100000	Rainfall:	No Data
Northing/Long.:	151.39805556	Runoff:	No Data
Easting/Lat.:	-32.75305556	Drainage:	No Data

Geology

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 Data	Pattern Type:	No Data
Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	No Data	Slope Category:	Gently inclined
Slope:	8 %	Aspect:	45 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Brown Sodosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Soloth
Confidence level not specified			

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.08 m	Dark greyish brown (10YR4/2-Dry); ; Fine sandy loam; Gradual, Smooth change to -
A12	0.08 - 0.15 m	Light brownish grey (10YR6/2-Dry); ; Fine sandy loam; 20-50%, coarse gravelly, 20-60mm, rounded tabular, coarse fragments; Abrupt, Wavy change to -
B21	0.15 - 0.45 m	Greyish brown (10YR5/2-Moist); , 10YR32, 2-10% , 5-15mm, Distinct; Medium heavy clay; 0-2%, medium gravelly, 6-20mm, coarse fragments; Gradual, Smooth change to -
B22	0.45 - 0.7 m	Light brownish grey (10YR6/2-Moist); , 2.5YR48, 2-10% , 5-15mm, Prominent; Medium clay; 10-20%, coarse gravelly, 20-60mm, rounded tabular, coarse fragments; Gradual, Smooth change to -
BC	0.7 - 1 m	Light brownish grey (10YR6/2-Moist); , 10YR66, 10-20% , 5-15mm, Distinct; Light clay; 50-90%, coarse gravelly, 20-60mm, rounded tabular, Sandstone, coarse fragments;

Morphological Notes

B21	Darker mottles = organic matter?
BC	Sandstone?

Observation Notes

Site Notes

Downslope, east from house/yards. Undulating low hills. Pasture.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.08	4.85D	0.068A	6.59H	2.56	0.74	0.16		10.35D	
0.08 - 0.15	5.1D	0.036A	4.61H	2.76	0.43	0.19		8.11D	
0.2 - 0.4	5.5D	0.323A	2.09H	13.71	0.57	2.69		19.1D	
0.5 - 0.7	4.75D	0.898A	1.09H	13.62	0.45	6.56		22.02D	
0.8 - 1	5D	1.019A	1H	15	0.47	8.07		24.61D	

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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