Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP366 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: C.J. Chartres Locality: Hebden/Moutain View, Clydesdale Property.

Date Desc.: Elevation: 06/04/93 No Data Sheet No.: 9133 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 151.03194444 Runoff: No Data -32.34111111 No Data Easting/Lat.: Drainage:

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:
 Steep rises 9-30m 32-56%
 Pattern Type:
 Hills

 Morph. Type:
 Upper-slope
 Relief:
 100 metres

 Elem. Type:
 No Data
 Slope Category:
 Steep

 Slope:
 25 %
 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 Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Dry); ; Sandy loam; 10-20%, medium gravelly, 6-20mm, angular,

Quartz, coarse fragments; Many, fine (1-2mm) roots; Clear change to -

A2 0.1 - 0.18 m Pale brown (10YR6/3-Dry); ; Sandy loam; 2-10%, medium gravelly, 6-20mm, angular, Quartz,

coarse fragments; Common, very fine (0-1mm) roots; Abrupt change to -

B2 0.18 - 0.4 m Yellowish brown (10YR5/4-Moist); , 7.5YR56, 2-10% , 0-5mm, Distinct; Medium clay; 2-10%,

medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Few, very fine (0-1mm) roots;

Clear change to -

BC 0.4 - 0.9 m Light yellowish brown (10YR6/4-Moist); ; Light medium clay;

Morphological Notes

A2 Quartz/Metamorphic (ME). BC Shaley parent material.

Observation Notes

Shallow rocky soil.

Site Notes

Steep slope to West. One kilometre up valley, 20 metres from break in slope. Grassy pasture, Themeda and other species. Rosevale land system?

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Laboratory Test Results:

Laboratory rest Results.										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Oa .	wig	ĸ	Cmol (+				%
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.7 0.8 - 0.9	4.81D 4.82D 5.18D 5.1D 6.08D	0.04A 0.022A 0.11A 0.309A 0.391A	3.84H 5.23H	2.09 2.08 9.16 13.46 15.65	0.7 0.32 0.3 0.29 0.28	0.17 0.28 1.87 4.56 6.31			7.72E 5.66E 15.22I 23.58I 29.12I) D D
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	O.	%	Ont Clay
0 - 0.1 0.1 - 0.18 0.2 - 0.4 0.5 - 0.7 0.8 - 0.9		1.82A	2J							
Depth	COLE		Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0.1 0.1 - 0.18										

0.2 - 0.4 0.5 - 0.7 0.8 - 0.9

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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