NSF **Project Name:** 

**Project Code:** NSF Site ID: VP94 Observation ID: 1

Agency Name: **CSIRO Division of Soils (VIC)** 

**Site Information** 

Locality:

Desc. By: Date Desc.: Elevation: No Data Sheet No.: 7322 1:100000 Map Ref.: Rainfall: 675 Northing/Long.: 142.1 Runoff: No Data

Easting/Lat.: -37.8333333333333 Drainage: Imperfectly drained

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: Basalt

**Land Form** 

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Elem. Type: No Data Relief: No Data No Data **Slope Category:** No Data 4 % No Data Slope: Aspect:

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

**Australian Soil Classification: Mapping Unit:** N/A Principal Profile Form: Dd1.12 **ASC Confidence: Great Soil Group:** Solodic soil

Confidence level not specified

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

### **Surface Coarse Fragments:**

Profile	Morpi	holoav
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0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Ferruginous, , Nodules;
0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Very few (0 - $2$ %), Ferruginous, , Nodules;
0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; Very few $(0 - 2\%)$ , Ferruginous, , Nodules;
0.3 - 0.4 m	Dark greyish brown (10YR4/2-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; Few (2 - 10 %), Ferruginous, , Nodules;
0.4 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); , 10YR57, 10-20% , Faint; , 2.5YR48, 10-20% , Faint; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Many (20 - 50 %), Ferruginous, , Nodules;
0.5 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); , 10YR57, 10-20% , Faint; , 2.5YR48, 10-20% , Faint; Heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Many (20 - 50 %), Ferruginous, , Nodules;
0.6 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); , 10YR57, 10-20% , Faint; , 2.5YR48, 10-20% , Faint; Heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Common (10 - 20 %), Ferruginous, , Nodules;
0.7 - 0.8 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR57, 2-10% , Faint; , 10YR21, 2-10% , Faint; Heavy clay; Very strong consistence; Common (10 - 20 %), Ferruginous, , Nodules;
0.8 - 0.9 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR57, 2-10% , Faint; , 2.5YR48, 2-10% , Faint; Heavy clay; Very strong consistence; Common (10 - 20 %), Ferruginous, , Nodules;
0.9 - 1 m	Dark greyish brown (2.5Y4/2-Moist); , 10YR57, 2-10% , Faint; , 2.5YR48, 2-10% , Faint; Heavy clay; Very strong consistence; Few (2 - 10 %), Ferruginous, , Nodules;

### **Morphological Notes**

#### **Observation Notes**

ORIGINALLY VP69/P2;MORPHOLOGY AND CHEMISTRY DATA FROM SINGLE CORE NO.5:

## **Site Notes**

Observation ID: 1

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# **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable			changeable	CEC	E	CEC		ESP
m		dS/m	Ca I	Mg	K	Na Cmol (+)/l	Acidity kg					%
						( )	3					
0 - 0.1	5.91	0.4D	3.9K	1.9	0.35	0.3						
0.1 - 0.2	5.51	0.23D										
0.2 - 0.3	6.11	0.11D										
0.3 - 0.4	6.61	0.07D										
0.4 - 0.5	7.21	0.19D	3.3K	4.6	0.15	1.4						
0.5 - 0.6	7.11	0.2D										
0.6 - 0.7	7.11	0.25D										
0.7 - 0.8	71	0.52D										
0.8 - 0.9	71	0.42D										
0.9 - 1	6.81	0.6D	6.7K	15	0.25	5.5						
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle S CS	ize A FS	nalysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3	٥,	00	%	Oiit	Clay
0 - 0.1					0.38				4C	36	27	22
0.1 - 0.2					0.25							
0.2 - 0.3					0.09	5A						
0.3 - 0.4												
0.4 - 0.5									19C	22	15	41
0.5 - 0.6					0.04	9A						
0.6 - 0.7												
0.7 - 0.8 0.8 - 0.9												
0.6 - 0.9					0.03	21			5C	9	9	73
0.9 - 1					0.03	ZA			50	9	9	13
Depth	COLE		Grav	imetric/Vo	lumetric W	later Conte	ents		K sat	ŀ	( unsa	t
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/	g - m3/m3	3			mm/h		mm/h	
0 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												

<sup>0.5 - 0.6</sup> 0.6 - 0.7 0.7 - 0.8 0.8 - 0.9 0.9 - 1

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#### **Laboratory Analyses Completed for this profile**

Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded 15\_NR\_CA 15\_NR\_K Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded 15\_NR\_MG 15\_NR\_NA Electrical conductivity or soluble salts - Total soluble salts % 3\_C\_B

4A\_C\_2.5 5\_C\_B pH of soil - pH of 1:2.5 soil/water suspension Water soluble Chloride - Method recorded as B 7A2 Total nitrogen - semimicro Kjeldahl , automated colour

MIN\_EC Exchange Capacity - Minerology P10\_NR\_C Clay (%) - Not recorded P10\_NR\_CS P10\_NR\_FS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10\_NR\_Z Silt (%) - Not recorded XRD\_C\_Hm XRD\_C\_Is XRD\_C\_Ka XRD\_C\_Mm XRD\_C\_Qz Hematite - X-Ray Diffraction

Interstratified clay minerals - X-Ray Diffraction

Kaolin - X-Ray Diffraction

Montmorillonite - X-Ray Diffraction

Quartz - X-Ray Diffraction