Project Name: BUR

Project Code: BUR Site ID: H97 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: J. Loveday Locality: 1.6km SW of Lapoinya:

Date Desc.: 23/03/54 Elevation: 366 metres Sheet No.: 8015 Map Ref.: 1:100000 Rainfall: 1220 Runoff: Northing/Long.: 145 55 Rapid -41.0166666666667 Well drained Easting/Lat.: Drainage:

<u>Geology</u>

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

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3- Pattern Type: Low hills

10%

Morph. Type:No DataRelief:No DataElem. Type:HillslopeSlope Category:Gently inclinedSlope:14.5 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHumose-Acidic Dystrophic Red FerrosolPrincipal Profile Form:Gn4.11ASC Confidence:Great Soil Group:Krasnozem

All necessary analytical data are available.

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.08 m Yellowish red (5YR3/6-Moist); ; Clay loam; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Abundant, fine (1-2mm) roots; Diffuse change to -

0.08 - 0.15 m Brown (7.5YR4/4-Moist); ; Clay loam; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Sharp change to -

0.15 - 0.28 m Dark reddish brown (5YR3/4-Moist); ; Heavy clay; Strong grade of structure, Granular; Weak consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Diffuse change to -

0.28 - 0.41 m Yellowish red (5YR3/6-Moist); ; Heavy clay; Strong grade of structure, Granular; Weak

consistence; 0-2%, stony, 200-600mm, Basalt, coarse fragments; Few (2 - 10 %), Argillaceous,

, Nodules; Diffuse change to -

0.41 - 0.56 m Yellowish red (5YR3/6-Moist); ; Heavy clay; Moderate grade of structure, Granular; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Basalt, coarse fragments; Very few (0 - 2 %),

Unidentified, Fine (0 - 2 mm), Concretions; Diffuse change to -

0.56 - 0.71 m Dark red (2.5YR3/6-Moist); ; Heavy clay; Massive grade of structure; Firm consistence; Few (2 -

10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to

0.76 - 0.91 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence;

Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Concretions; Diffuse change to -

0.99 - 1.17 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence;

2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Few (2 - 10 %), Unidentified,

Medium (2 -6 mm), Concretions; Diffuse change to -

1.68 - 1.78 m Yellowish red (5YR4/6-Moist); ; Heavy clay; Massive grade of structure; Weak consistence; 2-

10%, Basalt, coarse fragments;

2.54 - 2.74 m

Morphological Notes

Purple (5R2/6) mealy decomposed ba with YB and BL staining:

Observation Notes

8-15CM MANY WORMS:168-178CM YELLOW-WHITE MATERIAL ALSO:>274CM DECOMPOSING BA MORE

Project Name: BUR
Project Code: BUR Site ID: H9
Agency Name: CSIRO Division of Soils (TAS) H97 Observation ID: 1

Site Notes WELLINGTON

Project Name: BUR
Project Code: BUR Site ID: H97
Agency Name: CSIRO Division of Soils (TAS) Observation ID: 1

<u>Laboratory Test Results:</u>												
Depth	рН	1:5 EC		nangeable //g	Cations K	Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m		9		Cmol (+)					%	
0 - 0.08	5.8A							28C				
0.08 - 0.15	5.2A		3.5H	1.9	0.15	0.21	21.7H 43.4E			49.2B		
0.15 - 0.28	5.1A							19.50)			
0.28 - 0.41	5.2A		1.9H	0.78	0.12	0.14	16.6H 33E			35.9B		
0.41 - 0.56	5A							16.50)			
0.56 - 0.71	5.1A		1.2H	0.65	0.09	0.08	14.9H 28.8E			30.8B		
0.76 - 0.91	4.8A											
0.99 - 1.17	4.7A							13C				
1.68 - 1.78	4.8A											
2.54 - 2.74	4.9A											
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pai GV	rticle CS	Size A	nalysis Silt (Clav
m	%	%	mg/kg	%	%	%	Mg/m3			%		,
0 - 0.08		6.1D		0.148	O 0.55	56A						
0.08 - 0.15		4.9D		0.129[1	4B	23	25	36
0.15 - 0.28		3.5D		0.096								
0.28 - 0.41		2.7D		0.069				0	2B	8	17	72
0.41 - 0.56		2.1D			0.1	9A		_		_		
0.56 - 0.71 0.76 - 0.91		1.2D		0.072)			0	2B	8	15	74
0.76 - 0.91		0.3D										
1.68 - 1.78		0.50										
2.54 - 2.74												
Depth	COLE		Gravi	imetric/Vc	olumetric V	Vater Con	tents		Кs	at	K unsat	
Doptiii	0022	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 E	Bar			i i unout	
m		-	0.00 24.		g - m3/m		0 20. 10 2		mm	/h	mm/h	
0 - 0.08												
0.08 - 0.15												
0.15 - 0.28												
0.28 - 0.41												
0.41 - 0.56 0.56 - 0.71												
U.30 - U./1												

0.56 - 0.71 0.76 - 0.91 0.99 - 1.17 1.68 - 1.78 2.54 - 2.74

Project Name: BUR

Project Code: BUR Site ID: H97 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Laboratory Analyses Completed for this profile

12_HCL_FE Total element - Fe(%) - Total acid(HCl) extractable Fe

13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon

15D1_CEC CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach

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

15G_C_H1

Exchangeable hydrogen - meq per 100g of soil - Hydrogen By back titration of A or B
Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0

Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

2_LOI Loss on Ignition (%)
2A1 Air-dry moisture content
4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl , automated colour

9A_HCL Total element - P(%) - By boiling HCl

P10_GRAV Gravel (%)

P10A1_C Clay (%) - Pipette
P10A1_CS Coarse sand (%) - Pipette
P10A1_FS Fine sand (%) - Pipette
P10A1_Z Silt (%) - Pipette