Project Name: BL

Project Code: BL Site ID: **B324** Observation ID: 1

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

Site Information

Desc. By: G.D. Hubble Locality:

Date Desc.: Elevation: 19/07/57 300 metres

Map Ref.: Sheet No.: 8942 1:100000 Rainfall: 584

Northing/Long.: 150.0333333333333 Runoff: Moderately rapid Moderately well drained Easting/Lat.: -27.5236111111111 Drainage:

Geology

ExposureType: Conf. Sub. is Parent. Mat.: Soil pit No Data

Geol. Ref.: **Substrate Material:** Auger boring, 2 m deep, Unconsolidated Qs

material (unidentified)

Land Form

Pattern Type: Rel/Slope Class: No Data Plateau Morph. Type: No Data Relief: 18 metres Elem. Type: Slope Category: Plain No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Magnesic Mottled-Hypernatric Red Sodosol **Principal Profile Form:** Dr3.22 **ASC Confidence: Great Soil Group:** No suitable

All necessary analytical data are available.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Low Strata - Tussock grass, , . *Species includes - None recorded Vegetation: Mid Strata - Tree, 3.01-6m, . *Species includes - Acacia species

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subrounded, Substrate material

Profile Morphology

Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; 0 - 0.14 m Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; 2-10%,

fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 5.5 (pH meter); Many, very

fine (0-1mm) roots; Gradual change to -

Yellowish red (5YR4/6-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Many A2 0.15 - 0.28 m

(>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 4.9 (pH meter); Many, very

fine (0-1mm) roots; Gradual change to -

В1 0.28 - 0.53 m Red (2.5YR4/5-Moist); Clay loam, fine sandy; Massive grade of structure; Moist; Very weak

consistence; 10-20%, fine gravelly, 2-6mm, Substrate material, coarse fragments; Field pH 4.9

(pH meter); Common, very fine (0-1mm) roots; Clear change to -

Dark red (10R3/5-Dry); , 10YR42, 20-50% , 0-5mm, Distinct; , 20-50% , 0-5mm, Distinct; Medium 2B2h 0.56 - 0.86 m

clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Field pH 5.7 (pH meter);

Gradual change to -

2B2b Dark red (2.5YR3/5-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, 0.86 - 1.02 m

Prominent; Light clay; Moderate grade of structure, Angular blocky; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules: Field pH 6.2 (pH meter): Gradual change to -

Dark red (2.5YR3/5-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, 2B2b 1.07 - 1.37 m

Prominent; Clay loam; Moderate grade of structure, Angular blocky; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.9 (pH meter); Gradual change to -

2B2b 1.37 - 1.78 m Dark red (10R3/8-Dry); , 10YR63, 20-50% , 5-15mm, Prominent; , 20-50% , 5-15mm, Prominent;

Massive grade of structure; Dry; 0-2%, medium gravelly, 6-20mm, Substrate material, coarse

fragments; Field pH 6.1 (pH meter);

Morphological Notes

2B2b Silicified clay

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Observation Notes

LOW PLATEAU

Site Notes

TARA

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Laboratory Test Results:

Euboratory rest results.												
Depth	рН	1:5 EC		nangeable Mg	Cations K	Na	Exchangeable Acidity	CEC		ECEC	Е	SP
m		dS/m		- 5		Cmol (+	•				9	6
0 - 0.14 0.15 - 0.28 0.28 - 0.53	5.5H 4.9H 4.9H	0.02B 0.01B 0.01B	ЗК	0.74	1.3	0.11		15.7	J		0.	.70
0.56 - 0.86 0.86 - 1.02	5.7H 6.2H	0.06B 0.08B	0.2K	5.9	1.1	2.4		13.2	J		18	.18
1.07 - 1.37 1.37 - 1.78	6.9H 6.1H	0.09B 0.1B	0.11K	11	1.7	5.1		20.6	J		24	.76
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size .	Analysis Silt (Clay
m	%	%	mg/kg	%	%	%	Mg/m3	01	00	%	Oiii (Jiuy
0 - 0.14 0.15 - 0.28		1.77E 0.76E	10C	0.031F	0.1	4B		8 11	16C 16C	55	8	17 20
0.28 - 0.53 0.56 - 0.86 0.86 - 1.02 1.07 - 1.37		0.41E		0.01F				12 5 12 38	15C 13C 18C 40C	37 38	8 8 14 4	21 44 32 19
1.37 - 1.78				0.011F	•			30	400	31	4	19
Depth	COLE	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 - m3/m			-	mm/	h	mm/h	

0 - 0.14 0.15 - 0.28 0.28 - 0.53 0.56 - 0.86 0.86 - 1.02 1.07 - 1.37 1.37 - 1.78

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Laboratory Analyses Completed for this profile

15 NR CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_CEC CEC - meq per 100g of soil - Not recorded

15_NR_K Exch. basic cations (K++) - meg per 100g of soil - Not recorded 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

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

pH of soil - Not recorded 4_NR

Water soluble Chloride - Cl(%) - Not recordede 5_NR

6Z Organic carbon (%) - Not recorded 7_NR 9_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9A_NR MIN_EC Exchange Capacity - Minerology

MIN NR K2O Kaolin minerals P10_GRAV Gravel (%)

P10_NR_C Clay (%) - Not recorded P10_NR_CS Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded XRD_C_Hm Hematite - X-Ray Diffraction

Interstratified clay minerals - X-Ray Diffraction

XRD_C_Is XRD_C_Ka Kaolin - X-Ray Diffraction XRD_C_Qz Quartz - X-Ray Diffraction