Project Name: BL

Project Code: Site ID: **B328** Observation ID: 1 BL

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

Site Information

Desc. By: Date Desc.: G.D. Hubble Locality:

Elevation: 01/10/57 289 metres Sheet No.: 8942 1:100000 584

Map Ref.: Rainfall: Northing/Long.: 150.03055555556 Runoff: Moderately rapid -27.5388888888888 Imperfectly drained Easting/Lat.: Drainage:

Geology

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

Geol. Ref.: **Substrate Material:** Auger boring, 1 m deep, Unconsolidated Qs

material (unidentified)

Land Form

Rel/Slope Class: No Data Pattern Type: Plain Morph. Type: No Data Relief: 24 metres Plain Elem. Type: Slope Category: No Data Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Dd1.33 Hypocalcic Subnatric Black Sodosol Principal Profile Form: Solodized **Great Soil Group: ASC Confidence:** solonetz All necessary analytical data are available.

Site Disturbance: Limited clearing, for example selective logging

Low Strata - Tussock grass, , . *Species includes - Chloris species **Vegetation:**

Mid Strata - Tree, 1.01-3m, Closed or dense. *Species includes - Geijera parviflora, Eremophila mitchellii Tall Strata - Tree, 12.01-20m, Closed or dense. *Species includes - Casuarina cristata, Acacia harpophylla

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.01 m	Very dark greyish brown (10YR3/2-Dry); ; Loam (Fibric); Weak grade of structure, 5-10 mm, Platy; Dry; Firm consistence; Field pH 6.5 (pH meter); Sharp change to -
A12	0.01 - 0.13 m	Brown (7.5YR5/4-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 7 (pH meter); Gradual change to -
A2	0.13 - 0.15 m	Brown (7.5YR5/4-Dry); ; Fine sandy loam; Massive grade of structure; Dry; Firm consistence; Field pH 7.1 (pH meter); Clear change to -
B21	0.15 - 0.36 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Angular blocky; Moderately moist; Strong consistence; Field pH 7.8 (pH meter); Gradual change to -
B22	0.38 - 0.56 m	Brown (7.5YR4/3-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter); Gradual change to -
В3	0.61 - 0.97 m	Brown (7.5YR5/4-Moist); ; Fine sandy medium clay; Weak grade of structure, Angular blocky; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.3 (pH meter); Diffuse change to -
С	1.02 - 1.45 m	Brown (10YR5/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Moist; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9.3 (pH meter); Diffuse change to -
С	1.83 - 2.13 m	Brown (10YR5/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Wet; Slightly plastic; Field pH 9.2 (pH meter); Diffuse change to -
D	2.74 - 3.05 m	Brown (7.5YR4/2-Moist); ; Light medium clay; Wet; Moderately plastic; Field pH 4.9 (pH meter); Diffuse change to -
D	3.45 - 3.96 m	Pale yellow (2.5Y7/4-Moist); ; Light clay; Moist; Weak consistence; Field pH 4.7 (pH meter);

Morphological Notes

Observation Notes

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Site Notes

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Laboratory Test Results:												
Depth	pН	1:5 EC		nangeable /lg	Cations K	Na	Exchangeable Acidity	CEC	E	CEC	E	SP
m		dS/m				Cmol (+)	/kg				%	6
0 - 0.01	6.5H	0.08B	a =1.4								_	
0.01 - 0.13	7H	0.02B	6.7K	1.6	0.77	0.77		11.4	J		6.	.75
0.13 - 0.15	7.1H	0.02B	7.01/	6.1	0.27	4.0		101			6	22
0.15 - 0.36 0.38 - 0.56	7.8H 9H	0.02B 0.04B	7.8K	6.1	0.27	1.2		19J			0.	.32
0.61 - 0.97	9.3H	0.04B 0.07B	7.1K	7.3	0.19	1.2		18J			6	.67
1.02 - 1.45	9.3H	0.07B	7.11	7.5	0.13	1.2		100			0.	.07
1.83 - 2.13	9.2H	0.04B										
2.74 - 3.05	4.9H	0.17B	0.17K	5.3	0.1	5.1		16.4	J		31	.10
3.45 - 3.96	4.7H	0.35B										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Do	rticle S	Size Aı	nalvoja	
Deptii	Cacos	C	Avaii. P	P	N	K	Density	GV G		FS A	Silt (Clav
m	%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	0	Juy
0 - 0.01		6.48E		0.049F	0.5	7B		9	4C	43	11	25
0.01 - 0.13		1.03E	10C	0.021F	0.1	1B			8C	65	11	15
0.13 - 0.15		0.65E							7C	68	12	13
0.15 - 0.36	0.02C			0.014F					6C	54	9	28
0.38 - 0.56	0.050	0.25E							00			0.4
0.61 - 0.97	0.95C	,							6C	57	11	24
1.02 - 1.45 1.83 - 2.13									10C	72	5	12
2.74 - 3.05									100	12	3	12
3.45 - 3.96												
3.10 0.00												
Depth COLE Gravimetric/Volumetric Water Contents											K unsat	
Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar									. i oui	K sat K unsat		
m g/g - m3/m3									mm/h	1	mm/h	

0 - 0.01 0.01 - 0.13 0.13 - 0.15 0.15 - 0.36 0.38 - 0.56 0.61 - 0.97 1.02 - 1.45 1.83 - 2.13 2.74 - 3.05 3.45 - 3.96

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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++) - meq per 100g of soil - Not recorded 15_NR_MG Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded

19B_NR Calcium Carbonate (CaCO3) - Not recorded

2A1 Air-dry moisture content

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

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

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

P10_GRAV Gravel (%)

P10_NR_C
P10_NR_C
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
Fine sand (%) - Not recorded
Silt (%) - Not recorded