Project Name: LOC
Project Code: LOC **Site ID:** B939 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	K.J. Smith	**Locality:**	
Date Desc.:	//	**Elevation:**	No Data
Map Ref.:	Sheet No. : 9342 1:100000	**Rainfall:**	0
Northing/Long.:	152.355555555556	**Runoff:**	No Data
Easting/Lat.:	-27.7319444444445	**Drainage:**	Moderately well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	Hills
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	22 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn3.75
Great Soil Group: Solodic soil

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Dark brown (7.5YR3/2-Moist); ; Loam; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; Field pH 6 (pH meter); Common
A2	0.13 - 0.4 m	Brown (7.5YR4/4-Moist); ; Sandy clay loam; Weak grade of structure, Subangular blocky; Strong grade of structure, <2 mm, Granular; Moderately moist; Very weak consistence; Field pH 6.5 (pH meter); Few
B1	0.4 - 0.7 m	Yellowish red (5YR4/6-Moist); , 10YR53, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Light clay; Strong grade of structure, Subangular blocky; Moderately moist; Very firm consistence; 0-2%, Gravel, coarse fragments; Field pH 8.5 (pH meter);
B21	0.7 - 1.05 m	Yellowish red (5YR5/8-Moist); , 10YR66, 10-20% , 5-15mm, Faint; , 10-20% , 5-15mm, Faint; Light clay; Moderate grade of structure, Subangular blocky; Moderately moist; Firm consistence; Field pH 7.5 (pH meter);
B22	1.05 - 1.2 m	Brownish yellow (10YR6/6-Moist); , 5YR58, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Light medium clay; Weak grade of structure, Subangular blocky; Moderately moist; Firm consistence;
BC	1.2 - 1.48 m	Reddish yellow (7.5YR6/6-Moist); ; Sandy clay loam; 10-20%, Sandstone, coarse fragments; Field pH 7.8 (pH meter);
C	1.48 - 1.5 m	;

Morphological Notes

C Pink weathered sandstone.

Observation Notes

WAS LV194:

Site Notes

LOCKYER

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.13	6.4A	0.122A	8.4J	3.1	1.39	0.1		15.3F		0.65
0.13 - 0.4	6.8A	0.052A	5.6J	3.1	0.74	0.1		10.9F		0.92
0.4 - 0.7	7.7A	0.132A	9.8J	11.1	0.82	1.3		25.3F		5.14
0.7 - 1.05	7.5A	0.779A	6.4J	13.3	0.52	5		23.2F		21.55
1.05 - 1.2	6.9A	1.06A	6.4J	12.9	0.58	5.7		22F		25.91
1.2 - 1.48	7.2A	0.7A	3.6J	9.1	0.56	4.9		16.5F		29.70
1.48 - 1.5	8A	1.54A	2.1J	5.8	0.53	4		11.2F		35.71

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.13												
0.13 - 0.4												
0.4 - 0.7												
0.7 - 1.05												
1.05 - 1.2												
1.2 - 1.48												
1.48 - 1.5												

Depth	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/g - m3/m3							mm/h	mm/h
0 - 0.13										
0.13 - 0.4										
0.4 - 0.7										
0.7 - 1.05										
1.05 - 1.2										
1.2 - 1.48										
1.48 - 1.5										

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Laboratory Analyses Completed for this profile

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_CEC	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F2_AL	Extractable Al(%) - Silver Thiorea
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension