

**Project Name:** LOC  
**Project Code:** LOC      **Site ID:** B998      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	K.J. Smith	<b>Locality:</b>	
<b>Date Desc.:</b>	//	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 9342    1:100000	<b>Rainfall:</b>	0
<b>Northing/Long.:</b>	152.38111111111111	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-27.7963888888889	<b>Drainage:</b>	Moderately well drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Unconsolidated material (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Stagnant alluvial plain
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	8.8 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Ug5.15
		<b>Great Soil Group:</b>	Black earth

**Site Disturbance:** Cultivation. Rainfed

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.18 m	Very dark brown (7.5YR2/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; Field pH 7.5 (pH meter); Abundant, fine (1-2mm) roots; Clear change to -
B2	0.18 - 0.4 m	Very dark brown (7.5YR2/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Strong grade of structure, 2-5 mm, Polyhedral; Moist; Very firm consistence; Field pH 8 (pH meter); Gradual change to -
B21	0.4 - 1 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Moist; Very firm consistence; 0-2%, Basalt, coarse fragments; Field pH 8.7 (pH meter); Diffuse change to -
B22	1 - 1.3 m	Dark reddish brown (5YR3/4-Moist); ; Light medium clay; Strong grade of structure, Angular blocky; Dry; Strong consistence; 0-2%, Basalt, coarse fragments; Field pH 9 (pH meter); Clear change to -
B23	1.3 - 1.7 m	Brown (7.5YR4/4-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Dry; Strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Field pH 9.2 (pH meter);

**Morphological Notes**

**Observation Notes**

WAS LV402: SOFTWOOD SCRUB VEGETATION.

**Site Notes**

LOCKYER

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.18	6.6A	0.088A	14.6J	22.8	2	1		43.8F	2.28
0.18 - 0.4	7.4A	0.275A	17.6J	30.2	0.73	2		54F	3.70
0.4 - 1	8.9A	0.596A	13.3J	36.3	0.32	6.9		54.9F	12.57
1 - 1.3	8.7A	0.836A	7.4J	38.1	0.36	9.1		51F	17.84
1.3 - 1.7	8.6A	0.794A	7J	40.5	0.39	9.8		53.1F	18.46

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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