

**Project Name:** LOC  
**Project Code:** LOC      **Site ID:** B912      **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>	152.4625	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-27.7411111111111	<b>Drainage:</b>	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>	Conglomerate

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	6.6 %	<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>	Dy4.43
		<b>Great Soil Group:</b>	Solodic soil

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

**Vegetation:**

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.09 m	Very dark brown (10YR2/2-Moist); ; Loamy sand; Massive grade of structure, <2 mm, Granular; Moderately moist; Loose consistence; Field pH 6 (pH meter); ManyClear change to -
A2	0.09 - 0.19 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); ; Loamy sand; Moderate grade of structure; Dry; Strong consistence; Field pH 5.5 (pH meter); Abrupt change to -
B21	0.19 - 0.4 m	Brownish yellow (10YR6/6-Moist); ; Medium clay; Weak grade of structure, Columnar; Moderate grade of structure, Subangular blocky; Dry; Very strong consistence; Field pH 6.5 (pH meter); FewClear change to -
B22	0.4 - 0.55 m	Yellow (10YR7/6-Moist); ; Light medium clay; Weak grade of structure, Subangular blocky; Dry; Very strong consistence; Field pH 8 (pH meter); Clear change to -
C	0.55 - 0.75 m	;

**Morphological Notes**

C White and yellow weathered gritty sandstone.

**Observation Notes**

WAS LV117:

**Site Notes**

LOCKYER

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Acidity Cmol (+)/kg			%
0 - 0.09	5.4A	0.052A	4.5J	2.4	0.46	0.1	9.4F		1.06
0.05 - 0.15	5.4A	0.052A	0.2J	1.3	0.15	0.4	2.5F		16.00
0.19 - 0.4	6.4A	0.317A	2.8J	11.1	0.26	1.6	18.3F		8.74
0.4 - 0.5	7.6A	0.407A	3.5J	13.5	0.45	6.1	22.8F		26.75
0.55 - 0.75	8.7A	0.251A	2.2J	7.5	0.41	4.1	13.1F		31.30

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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