

**Project Name:** LOC  
**Project Code:** LOC      **Site ID:** B959      **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>	152.379444444444	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-27.779722222222	<b>Drainage:</b>	Poorly 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>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	4.4 %	<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>	Ug5.13
		<b>Great Soil Group:</b>	Black earth

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

A1	0 - 0.06 m	Very dark grey (10YR3/1-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Angular blocky; Dry; Weak consistence; 10-20%, cobbly, 60-200mm, rounded, Gravel, coarse fragments; Field pH 6.5 (pH meter); Clear change to -
B1	0.06 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Weak grade of structure, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Firm consistence; Field pH 7.5 (pH meter); Diffuse change to -
B21	0.3 - 0.42 m	Very dark greyish brown (10YR3/2-Moist); ; Heavy clay; Strong grade of structure, Angular blocky; Dry; Very firm consistence; Field pH 8.5 (pH meter); Gradual change to -
B22	0.42 - 0.55 m	Brown (10YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; 2-10%, Basalt, coarse fragments; Field pH 8.5 (pH meter); Clear change to -
C	0.55 - 0.65 m	; Field pH 8.5 (pH meter);

**Morphological Notes**

C W'th Basalt gravel with mod Ca carbonate & segretations.

**Observation Notes**

WAS LV309:

**Site Notes**

LOCKYER

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	6.1A	0.524A	26J	17.1	4.7	0.31		49.3F		0.63
0.06 - 0.3	6.7A	0.279A	22.3J	18.8	6.4	0.42		45.3F		0.93
0.3 - 0.42	7.8A	0.27A	27.6J	16.9	6.7	0.63		53.5F		1.18
0.4 - 0.5	7.7A	0.484A	23.5J	19.9	6.7	1.1		51.6F		2.13
0.55 - 0.65	8.6A	0.471A	23.4J	23.9	5.1	1.4		53.2F		2.63

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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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1	Organic carbon - Walkley and Black
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)