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.:
 152.35555555556
 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:Mapping Unit:N/AN/APrincipal Profile Form:Gn3.75ASC Confidence:Great Soil Group:Solodic soil

Confidence level not specified

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

Pink weathered sandstone.

**Observation Notes** 

WAS LV194:

**Site Notes** 

LOCKYER

Project Name: LOC

Project Code: LOC Site ID: B93
Agency Name: CSIRO Division of Soils (QLD) Site ID: B939 Observation ID: 1

## **Laboratory Test Results:**

pН	1:5 EC					•	CEC	ECEC	ESP
	dS/m	а	wg	N.					%
6.4A	0.122A	8.4J	3.1	1.39	0.1		15.3F		0.65
6.8A	0.052A	5.6J	3.1	0.74	0.1		10.9F		0.92
7.7A	0.132A	9.8J	11.1	0.82	1.3		25.3F		5.14
7.5A	0.779A	6.4J	13.3	0.52	5		23.2F		21.55
6.9A	1.06A	6.4J	12.9	0.58	5.7		22F		25.91
7.2A	0.7A	3.6J	9.1	0.56	4.9		16.5F		29.70
8A	1.54A	2.1J	5.8	0.53	4		11.2F		35.71
CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS	Size FS	Analysis Silt Clay
	6.4A 6.8A 7.7A 7.5A 6.9A 7.2A 8A	6.4A 0.122A 6.8A 0.052A 7.7A 0.132A 7.5A 0.779A 6.9A 1.06A 7.2A 0.7A 8A 1.54A CaCO3 Organic C	Ca dS/m  6.4A 0.122A 8.4J 6.8A 0.052A 5.6J 7.7A 0.132A 9.8J 7.5A 0.779A 6.4J 6.9A 1.06A 6.4J 7.2A 0.7A 3.6J 8A 1.54A 2.1J  CaCO3 Organic Avail. C P	Ca         Mg           6.4A         0.122A         8.4J         3.1           6.8A         0.052A         5.6J         3.1           7.7A         0.132A         9.8J         11.1           7.5A         0.779A         6.4J         13.3           6.9A         1.06A         6.4J         12.9           7.2A         0.7A         3.6J         9.1           8A         1.54A         2.1J         5.8    CaCO3  Organic  Avail.  Total  P	Ca dS/m         Mg         K           6.4A         0.122A         8.4J         3.1         1.39           6.8A         0.052A         5.6J         3.1         0.74           7.7A         0.132A         9.8J         11.1         0.82           7.5A         0.779A         6.4J         13.3         0.52           6.9A         1.06A         6.4J         12.9         0.58           7.2A         0.7A         3.6J         9.1         0.56           8A         1.54A         2.1J         5.8         0.53           CaCO3         Organic         Avail.         Total P         N	Ca dS/m         Mg         K         Na Cmol (+)/kg           6.4A         0.122A         8.4J         3.1         1.39         0.1           6.8A         0.052A         5.6J         3.1         0.74         0.1           7.7A         0.132A         9.8J         11.1         0.82         1.3           7.5A         0.779A         6.4J         13.3         0.52         5           6.9A         1.06A         6.4J         12.9         0.58         5.7           7.2A         0.7A         3.6J         9.1         0.56         4.9           8A         1.54A         2.1J         5.8         0.53         4           CaCO3         Organic         Avail.         Total P         N         K	Ca dS/m         Mg         K         Na Comol (+)/kg           6.4A         0.122A         8.4J         3.1         1.39         0.1           6.8A         0.052A         5.6J         3.1         0.74         0.1           7.7A         0.132A         9.8J         11.1         0.82         1.3           7.5A         0.779A         6.4J         13.3         0.52         5           6.9A         1.06A         6.4J         12.9         0.58         5.7           7.2A         0.7A         3.6J         9.1         0.56         4.9           8A         1.54A         2.1J         5.8         0.53         4           CaCO3         Organic         Avail.         Total Total Total Total Total Ensity         Bulk Density	Ca dS/m         Mg         K         Na Comol (+)/kg         Acidity Cmol (+)/kg           6.4A         0.122A         8.4J         3.1         1.39         0.1         15.3F           6.8A         0.052A         5.6J         3.1         0.74         0.1         10.9F           7.7A         0.132A         9.8J         11.1         0.82         1.3         25.3F           7.5A         0.779A         6.4J         13.3         0.52         5         23.2F           6.9A         1.06A         6.4J         12.9         0.58         5.7         22F           7.2A         0.7A         3.6J         9.1         0.56         4.9         16.5F           8A         1.54A         2.1J         5.8         0.53         4         11.2F           CaCO3 Organic         Avail.         Total         Total         Bulk Density         Particle           Bulk Density         GV         CS	Ca dS/m         Mg         K         Na Codity Cmol (+)/kg           6.4A         0.122A         8.4J         3.1         1.39         0.1         15.3F           6.8A         0.052A         5.6J         3.1         0.74         0.1         10.9F           7.7A         0.132A         9.8J         11.1         0.82         1.3         25.3F           7.5A         0.779A         6.4J         13.3         0.52         5         23.2F           6.9A         1.06A         6.4J         12.9         0.58         5.7         22F           7.2A         0.7A         3.6J         9.1         0.56         4.9         16.5F           8A         1.54A         2.1J         5.8         0.53         4         11.2F    CaCO3 Organic Avail. Total Foundable Cache P P N K Density GV CS FS

m	%	P mg/kg				Silt	Clay
0 - 0 13							

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 **Project Name:** LOC

**Project Code:** LOC Site ID: **B939** Observation ID: 1

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

## **Laboratory Analyses Completed for this profile**

15F1\_CA 15F1\_CEC 15F1\_K 15F1\_MG 15F1\_NA Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts 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