Project Name: LOC

Project Code: LOC Site ID: B987 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: K.J. Smith Locality:

Date Desc.://Elevation:No DataMap Ref.:Sheet No.: 93421:100000Rainfall:0Northing/Long.:Runoff:No Data

Easting/Lat.: 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: No Data Morph. Type: Upper-slope Relief: No Data Elem. Type: No Data Slope Category: No Data Slope: 1.28 % Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dr2.41

ASC Confidence: Great Soil Group: Red podzolic soil

Confidence level not specified

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1 0 - 0.22 m Brown (7.5YR5/4-Moist); ; Fine sandy loam; Weak grade of structure, Subangular blocky; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, Detrital sedimentary rock

(unidentified), coarse fragments; CommonGradual change to

A2 0.22 - 0.53 m Yellowish red (5YR5/6-Moist); Light reddish brown (5YR6/4-Dry); ; Moderate grade of structure,

Subangular blocky; Dry; Firm consistence; 20-50%, coarse gravelly, 20-60mm, Detrital

sedimentary rock (unidentified), coarse fragments; Gradual change to -

B21 0.53 - 1.15 m Yellowish red (5YR4/6-Moist); ; Medium clay; Strong grade of structure, Angular blocky; Dry; Very

firm consistence; 20-50%, coarse gravelly, 20-60mm, Detrital sedimentary rock (unidentified),

coarse fragments; Few, coarse (>5mm) roots; Diffuse change to -

B22 1.15 - 1.33 m Yellowish red (5YR4/6-Moist); , 7.5YR54; Medium clay; Strong grade of structure, Angular

blocky; Dry; Very firm consistence; 20-50%, coarse gravelly, 20-60mm, Detrital sedimentary rock

(unidentified), coarse fragments; FewClear change to -

BC 1.33 - 1.7 m Very pale brown (10YR7/4-Moist); , 5YR58; Medium clay; Strong grade of structure, Polyhedral;

Moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Detrital sedimentary rock

(unidentified), coarse fragments; Few, fine (1-2mm) roots; Abrupt change to -

R 1.7 - 1.8 m Rock

Morphological Notes

R Sandstone.

Observation Notes

WAS LV372:

Site Notes

LOCKYER

Project Name: LOC
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Laboratory Test Results:

Depth	pН	1:5 EC	Exchangeable Cations			Exchangeable		CEC		ECEC	ESP
-	•	C	Ca I	Mg	K	Na	Acidity				
m	dS/m		-			Cmol (+)/kg					%
0 000	5 O A	0.0004	0.05	0.00	0.4	0.4		0.0	_	- 4-	4.00
0 - 0.22	5.3A	0.003A	3.6F	0.29	0.1	0.1		8.3		5.1F	_
0.22 - 0.53	4.4A	0.004A	0.43F	0.07	0.71	0.71		6.3	F	2.4F	11.27
0.53 - 1.15	4.2A	0.005A	0.56F	0.3	0.11	0.11		17.7	'F	7.4F	0.62
1.15 - 1.33	4.4A	0.004A	0.18F	0.36	0.39	0.39		20.8	3F	9.5F	1.88
1.33 - 1.7	4.3A	0.007A	0.14F	0.34	0.28	0.28		17.7	'F	8.1F	1.58
1.7 - 2	4.4A	0.006A	0.27F	0.1	0.06	0.06		4.2	F	1.7F	1.43
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis
		С	Р	Р	N	K	Density	G۷	CS	FS	Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.22				0.041	4	0.9	Α				
0.22 - 0.53				0.04A		0.89					
0.22 0.00				0.0-7		4.04					

0 0.22	0.0	0.07.
0.22 - 0.53	0.04A	0.89A
0.53 - 1.15	0.05A	1.01A
1.15 - 1.33	0.032A	1.1A
1.33 - 1.7	0.026A	1.34A
1.7 - 2	0.015A	0.94A

Depth	COLE	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 - 0.22 0.22 - 0.53 0.53 - 1.15 1.15 - 1.33 1.33 - 1.7 1.7 - 2 **Project Name:** LOC

Project Code: LOC **B987** Observation ID: 1 Site ID:

CSIRO Division of Soils (QLD) Agency Name:

Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

12_XRF_CU 12_XRF_ZN 15D1_CA Total element - Cu(mg/kg) - X-Ray Fuoresence Total element - Zn(mg/kg) - X-Ray Fuoresence

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium acetate at pH 7.0, pretreatment for

soluble salts; manual leach

15D1_K Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;

manual leach

15D1_MG Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;

manual leach

15D1_NA Exchangeable bases and CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts;

manual leach

15F1_CEC Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts

15F2_AL Extractable Al(%) - Silver Thiorea

15J1 Effective CEC

Total potassium - X-ray fluorescence 17A1

3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1 Total phosphorus - X-ray fluorescence 9A1 MIN_EC Exchange Capacity - Minerology

XRD_C_II Illite - X-Ray Diffraction

K2O - X-Ray Diffraction or Clay Fraction (air dry)

XRD_C_K2O XRD_C_Ka XRD_C_Qz XRD_C_St Kaolin - X-Ray Diffraction Quartz - X-Ray Diffraction Smectite - X-Ray Diffraction