

Project Name: Regional
Project Code: REG **Site ID:** T147 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G. Smith	Locality:	5.4KM west of Thirlestone turn on new road running west from Yarrowmere
Date Desc.:	08/09/70	Elevation:	No Data
Map Ref.:	Sheet No. : 8054 1:100000	Rainfall:	480
Northing/Long.:	145.583333333333	Runoff:	Slow
Easting/Lat.:	-21.5333333333333	Drainage:	Well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Qs	Substrate Material:	Sandstone

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	15 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Ferric Mesotrophic Red Kandosol	Principal Profile Form:	Gn2.14
ASC Confidence:	Great Soil Group:	Red earth

No analytical data are available but confidence is fair.

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

Vegetation:

Mid Strata - Tree, 0.51-1m, . *Species includes - Eucalyptus setosa

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus setosa, Grevillea glauca, Grevillea species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/3-Dry); ; Loamy sand; Massive grade of structure; Dry; Loose consistence; Few, fine (1-2mm) roots; Clear change to -
A3	0.1 - 0.2 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Loamy sand; Massive grade of structure; Dry; Firm consistence; Few, medium (2-5mm) roots; Gradual change to -
A3	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); Yellowish red (5YR5/6-Dry); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Gradual change to -
B1	0.3 - 0.4 m	Red (2.5YR4/6-Moist); Red (2.5YR5/6-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Rigid consistence;
B1	0.4 - 0.5 m	Red (2.5YR4/6-Moist); Red (2.5YR5/6-Dry); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Rigid consistence;
B1	0.5 - 0.6 m	Red (2.5YR4/8-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Gradual change to -
B2	0.6 - 0.75 m	Red (2.5YR4/8-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Rigid consistence; Gradual change to -
B2	0.75 - 0.9 m	Red (2.5YR4/8-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Very strong consistence;
B2	0.9 - 1.2 m	Red (2.5YR4/8-Moist); , 7.5YR56, 0-2% , 0-5mm, Distinct; , 0-2% , 0-5mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Very strong consistence;
B2	1.2 - 1.5 m	Red (2.5YR4/8-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Strong consistence; Gradual change to -
	1.5 - 1.8 m	Yellowish red (5YR5/8-Moist); , 5YR78, 2-10% , 0-5mm, Faint; , 2.5YR58, 2-10% , 0-5mm, Faint; Sandy clay loam (Light); Massive grade of structure; Firm consistence;

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1.8 - 2.1 m	Yellowish red (5YR5/8-Moist); , 5YR78, 20-50% , 0-5mm, Faint; , 20-50% , 0-5mm, Faint; Sandy clay loam; Massive grade of structure; Firm consistence; Gradual change to -
2.1 - 2.4 m	Brownish yellow (10YR6/8-Moist); ; Sandy clay loam; Massive grade of structure; Firm consistence; Few (2 - 10 %), Ferruginous, , Concretions; Gradual change to -
2.4 - 2.7 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam (Light); Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferruginous, , Concretions; Gradual change to -
2.7 - 3 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam (Light); Massive grade of structure; Firm consistence; Many (20 - 50 %), Ferruginous, , Nodules; Gradual change to -
3 - 3.3 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Very firm consistence; Common (10 - 20 %), , , Nodules; Gradual change to -
3.3 - 3.6 m	Yellowish brown (10YR5/8-Moist); ; Sandy loam; Massive grade of structure; Very firm consistence; Common (10 - 20 %), Ferruginous, Extremely coarse (> 60 mm), Concretions;

Morphological Notes

Observation Notes

300-360CM WHITISH STREAKS COMMON WITH ALTERED SST:

Site Notes

YARROWMERE

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.1	6.2A	0.032A							
0.1 - 0.2	6.3A	0.011A							
0.2 - 0.3	6A	0.014A							
0.3 - 0.4	6.1A	0.014A							
0.4 - 0.5	6.2A	0.014A							
0.5 - 0.6	6.3A	0.017A							
0.6 - 0.75	6.5A	0.011A							
0.75 - 0.9	6.5A	0.011A							
0.9 - 1.2	6.1A	0.011A							
1.2 - 1.5	6.5A	0.011A							
1.5 - 1.8	6.4A	0.017A							
1.8 - 2.1	6.5A	0.014A							
2.1 - 2.4	6.3A	0.014A							
2.4 - 2.7	6.4A	0.014A							
2.7 - 3	6.6A	0.014A							
3 - 3.3	6.8A	0.014A							
3.3 - 3.6	7.1A	0.014A							

[illegible]

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 - 0.1										
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.75										

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0.75 - 0.9
0.9 - 1.2
1.2 - 1.5
1.5 - 1.8
1.8 - 2.1
2.1 - 2.4
2.4 - 2.7
2.7 - 3
3 - 3.3
3.3 - 3.6

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Laboratory Analyses Completed for this profile

3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour