Project Name: Regional

Project Code: REG Site ID: T76 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: R.F. Isbell Locality: 8.5KM north along Iron Range Road from Wenlock

River:

Date Desc.: 23/07/68 Elevation: 152 metres Map Ref.: Sheet No. : 7471 1:100000 Rainfall: 1200 Northing/Long.: 142.9875 Runoff: Very slow Easting/Lat.: -13.08333333333333 Drainage: No Data

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: SDk Substrate Material: Auger boring, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Alluvial fan

1-3%

Morph. Type:Upper-slopeRelief:15 metresElem. Type:PlainSlope Category:Gently inclinedSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AParapanic Humic Aeric PodosolPrincipal Profile Form:Uc2.32ASC Confidence:Great Soil Group:Podzol

All necessary analytical data are available.

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

Vegetation:

Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Melaleuca species, Acacia species

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus tetrodonta

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, , Quartz

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); Grey (10YR5/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewClear, Irregular change to -
A21	0.1 - 0.2 m	Grey (10YR6/1-Moist); Light grey (10YR7/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewGradual change to -
A22	0.2 - 0.3 m	Light grey (10YR7/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Few
A22	0.3 - 0.6 m	Light grey (10YR7/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Clear change to -
В	0.6 - 0.9 m	Brown (10YR4/3-Moist); , 7.5YR56, 0-2%; , 0-2%; Loamy sand; Massive grade of structure; Strong consistence; , Continuous, Nodular; Gradual change to -
ВС	0.9 - 1.1 m	Pale brown (10YR6/3-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Other, , Nodules; Clear change to -
С	1.1 - 1.2 m	Very pale brown (10YR7/4-Moist); ; Sand; Single grain grade of structure; Weak consistence; 50-90%, coarse gravelly, 20-60mm, rounded, Quartz, coarse fragments; Gradual change to -
С	1.2 - 1.5 m	Reddish yellow (7.5YR6/5-Moist); , 2.5YR58, 0-2% , 0-5mm; , 0-2% , 0-5mm; Coarse sand; Single grain grade of structure; Weak consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
D	1.5 - 1.8 m	Reddish yellow (7.5YR6/5-Moist); , 2.5YR58, 2-10%; , 2-10%; Sandy loam (Heavy); Firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
D	1.8 - 2 m	White (10YR8/2-Moist); , 2.5YR58; Light clay (Heavy); Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;

Morphological Notes

Project Name: Project Code: Agency Name: Regional
REG Site ID: T76
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Observation Notes

Site Notes
WENLOCK R.

Observation ID: 1

Project Name: Project Code: Agency Name: Regional REG Site ID: T76 CSIRO Division of Soils (QLD)

Laboratory	y Test Results:

Depth	pН	1:5 EC		nangeable				ngeable	CEC		ECEC	ı	ESP
m		dS/m	Ca M	Иg	K	Na Cmol (+		idity					%
0 - 0.1	5.9A	0.006C	0.7B	0.3	0.02	0.9							
0.1 - 0.1	5.9A 6A	0.006C	0.7B 0.25B	0.3 0.15	0.02	0.9							
0.1 - 0.2	6.1A	0.004C	0.230	0.15	0.02	0.4							
0.2 - 0.3	6.2A	0.004C	0.1B	0.15	0.01	0.4							
0.6 - 0.9	6.4A	0.004C	0.1B	0.10	0.05	1.8							
0.9 - 1.1	6.3A	0.007C	0.15	0.1	0.00	1.0							
1.1 - 1.2	6.5A	0.004C											
1.2 - 1.5	6.5A	0.004C											
1.5 - 1.8	6.2A	0.002C											
1.8 - 2	6.1A	0.006C	0.1B	1.5	0.13	1.6							
Domth	CaCO3	Overenie	Avail	Total	Total	Total		Bulk	De	utiala.	Cina	A malvaia	_
Depth	Cacos	Organic C	Avail. P	P	N	K		Density	GV Pa	rticle CS	FS	Analysis Silt	
m	%	%	mg/kg	%	%	%		Mg/m3	٥,	00	%	Siit	Clay
			5 5					•					
0 - 0.1		0.31A	<1A	0.008A	0.012	2A 0.21	9A		3	80C	15	1	2
			4.4B										
0.1 - 0.2		0.16A	<1A	0.007A	0.006	6A 0.20)8A			70C	25	2	3
			4B										
0.2 - 0.3									10				
0.3 - 0.6		0.11A	1.9B	0.009A					9	71C			2
0.6 - 0.9		0.13A	1.6B	0.009A	0.013	3A 0.3	3A		18	65C	21	6	6
0.9 - 1.1									20				
1.1 - 1.2									54				
1.2 - 1.5			2.1B	0.009A		0.34	ŀ6A		42	63C	19	4	11
1.5 - 1.8			0.00	0.0074	0.047	-	- 4 ^		40	000	_	2	00
1.8 - 2			0.2B	0.007A	0.01	5A 0.55	94A		28	66C	9	2	22
Depth COLE Gravimetric/Volumetric Water Contents K sat K unsat													
Depth	COLE	Cot	Gravi 0.05 Bar	metric/Vol	umetric W	ater Con 1 Bar	tents 5 B	or 45	Bar	K sa	at	K unsa	
m		Sat.	U.UO Dar		บ.5 Bar j - m3/m3		эВ	oai 15	Däl	mm	/h	mm/h	
					-								

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.1 1.1 - 1.2 1.2 - 1.5 1.5 - 1.8

Project Name: Regional

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

12_NR_CU Total element - Cu(mg/kg) - Not recorded 12_NR_ZN Total element - Zn(mg/kg) - Not recorded

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2_K Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_MG 15A2_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

17A1 Total potassium - X-ray fluorescence

Air-dry moisture content 2A1

3A_TSS Electrical conductivity or soluble salts - Total soluble salts %

4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6A1 Organic carbon - Walkley and Black

Total nitrogen - semimicro Kjeldahl , automated colour 7A2

9A1 Total phosphorus - X-ray fluorescence

Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9B_9C

9G_BSES

9H_NR Posphate retention % - Not recorded

P10_GRAV Gravel (%)

Clay (%) - Not recorded Coarse sand (%) - Not recorded P10_NR_C P10_NR_CS Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded XRD_C_II XRD_C_Ka Illite - X-Ray Diffraction Kaolin - X-Ray Diffraction XRD_C_Qz Quartz - X-Ray Diffraction