

Project Name: Regional
Project Code: REG **Site ID:** T77 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	4.5KM west of Bourne Creek on Coen-Rokeby Road:9.6KM west of turn-off:
Date Desc.:	24/07/68	Elevation:	152 metres
Map Ref.:	Sheet No. : 7570 1:100000	Rainfall:	1150
Northing/Long.:	143.0875	Runoff:	Very slow
Easting/Lat.:	-13.8958333333333	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	SDk	Substrate Material:	Auger boring, 2.1 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Crest	Relief:	6 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Bleached Tenosol		Principal Profile Form:	Uc2.23
ASC Confidence:		Great Soil Group:	Siliceous sand
All necessary analytical data are available.			

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

Vegetation: Low Strata - Sedge, 0.26-0.5m, Very sparse. *Species includes - None recorded
 Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia species
 Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus tetrodonta

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Grey (10YR5/1-Moist); Grey (10YR6/1-Dry); ; Sand; Single grain grade of structure; Weak consistence; FewGradual change to -
A21	0.1 - 0.2 m	Grey (10YR6/1-Moist); Light grey (10YR7/1-Dry); ; Sand; Single grain grade of structure; Weak consistence; FewGradual change to -
A22	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Sand; Single grain grade of structure; Weak consistence;
A22	0.3 - 0.6 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Sand; Single grain grade of structure; Weak consistence;
A22	0.6 - 0.9 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Sand; Single grain grade of structure; Weak consistence; Gradual change to -
B	0.9 - 1.2 m	Very pale brown (10YR7/4-Moist); Very pale brown (10YR8/4-Dry); , 5YR58, 0-2% ; , 0-2% ; Sand; Single grain grade of structure; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
BC	1.2 - 1.35 m	Very pale brown (10YR7/4-Moist); Very pale brown (10YR8/4-Dry); , 5YR58, 0-2% ; , 0-2% ; Coarse sand; Single grain grade of structure; Very weak consistence; 10-20%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Clear change to -
D1	1.35 - 1.5 m	Light grey (10YR7/1-Moist); , 2.5YR46; Light clay; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Gradual change to -
D2	1.5 - 1.8 m	Red (2.5YR4/6-Moist); , 10YR71; Medium clay; Very firm consistence; 0-2%, rounded, Quartz, coarse fragments; Gradual change to -
D3	1.8 - 1.95 m	Light grey (10YR7/1-Moist); , 2.5YR46; Light medium clay; Very firm consistence; 2-10%, angular, Quartz, coarse fragments; Clear change to -

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D4 1.95 - 2.05 m Light grey (10YR7/1-Moist); , 2.5YR46, 0-2% ; , 0-2% ; Light medium clay; Very firm consistence;
2-10%, angular, Quartz, coarse fragments;
2.05 - 2.15 m ;

Morphological Notes

Hard rock or hard pan

Observation Notes

Site Notes

ROKEBY ROAD

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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	6A	0.004C	0.35B	0.15	0.01	1.1				
0.1 - 0.2	6A	0.004C	0.15B	0.05	0.02	0.8				
0.2 - 0.3	6A	0.005C								
0.3 - 0.6	6.1A	0.004C	0.05B	0.05	0.02	0.6				
0.6 - 0.9	6.1A	0.005C								
0.9 - 1.2	6.1A	0.004C	0.05B	0.3	0.05	0.3				
1.2 - 1.35	6A	0.005C								
1.35 - 1.5	5.9A	0.005C								
1.5 - 1.8	5.9A	0.004C	0.05B	0.85	0.13	1.9				
1.8 - 1.95	5.8A	0.004C								
1.95 - 2.05	5.6A	0.006C								

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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
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
9H_NR	Posphate retention % - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction