

Project Name: Regional
Project Code: REG **Site ID:** T71 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	1.2KM east of Dixie on road to highway:
Date Desc.:	18/07/68	Elevation:	91 metres
Map Ref.:	Sheet No. : 7374 1:100000	Rainfall:	1150
Northing/Long.:	143.486111111111	Runoff:	Very slow
Easting/Lat.:	-15.0375	Drainage:	Well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	TQs	Substrate Material:	Auger boring, 1.4 m deep, Gravel

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Alluvial plain
Morph. Type:	Ridge	Relief:	15 metres
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Ferric Bleached Tenosol		Principal Profile Form:	Uc2.23
ASC Confidence:		Great Soil Group:	Siliceous sand

Analytical data are incomplete but reasonable confidence.

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

Vegetation:

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: 10-20%, medium gravelly, 6-20mm, , Quartz

Profile Morphology

A1	0 - 0.1 m	Dark grey (10YR4/1-Moist); Grey (10YR6/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewClear change to -
A21	0.1 - 0.2 m	Grey (10YR5/1-Moist); Light grey (10YR7/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Few
A21	0.2 - 0.3 m	Grey (10YR5/1-Moist); Light grey (10YR7/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; FewGradual change to -
A22	0.3 - 0.6 m	Grey (10YR6/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence;
A22	0.6 - 0.9 m	Grey (10YR6/1-Moist); White (10YR8/1-Dry); ; Sand; Single grain grade of structure; Very weak consistence; Clear change to -
B	0.9 - 1.2 m	Grey (10YR6/1-Moist); White (10YR8/1-Dry); , 10YR53, 10-20% , 15-30mm, Faint; , 10-20% , 15-30mm, Faint; Sand; Single grain grade of structure; Very weak consistence; Many (20 - 50 %), Unidentified, Very coarse (20 - 60 mm), Nodules; Clear change to -
C	1.2 - 1.4 m	Grey (10YR6/1-Moist); ; Sand; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

Observation Notes

UNABLE TO PENETRATE GRAVEL LAYER AT 140CM:

Site Notes

DIXIE

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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	5.9A	<0.01C	0.4B	0.25	0.01	0.8				
0.1 - 0.2	5.9A	<0.01C	0.15B	0.1	0.01	0.3				
0.2 - 0.3	6.1A	<0.01C								
0.3 - 0.6	6A	<0.01C	0.1B	0.1	0.01	0.4				
0.6 - 0.9	6A	<0.01C								
0.9 - 1.2	5.8A	<0.01C	0.05B	0.1	0.03	0.8				
1.2 - 1.4	6A	<0.01C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.34A	1A	0.005A	0.016A	0.024A			90C	8	0	2
0.1 - 0.2		0.12A	3.2B	0.005A	0.004A	0.027A			34C	14	2	2
0.2 - 0.3								2				
0.3 - 0.6				0.004A	0.008A	0.026A		2	88C	10	1	3
0.6 - 0.9								3				
0.9 - 1.2				0.006A	0.017A	0.063A		4	76C	16	2	6
1.2 - 1.4								73				

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	15 Bar	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar		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 - 1.2						
1.2 - 1.4						

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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
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4A1	pH of 1:5 soil/water suspension
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_GRAV	Gravel (%)
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