Project Name: **Regional**
Project Code: **REG** **Site ID:** **T231** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: R.J. Coventry
Date Desc.: 06/12/77
Map Ref.: Sheet No. : 7956 1:100000
Northing/Long.: 145.106944444444
Easting/Lat.: -20.75
Locality: 8.7km east of Torrens Creek.
Elevation: No Data
Rainfall: 600
Runoff: No Data
Drainage: No Data

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Sandstone

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Crest
Elem. Type: Hillslope
Slope: 0 %
Pattern Type: Plain
Relief: 20 metres
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): N/A

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Orthic Tenosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Uc5.22
Great Soil Group: Earthy sand

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Gradual change to -
A12	0.1 - 0.2 m	Dark red (2.5YR3/6-Moist); ; Loamy sand (Light); Massive grade of structure; Earthy fabric; Diffuse change to -
A3	0.2 - 0.3 m	Dark red (10R3/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Diffuse change to -
A3	0.3 - 0.45 m	Dark red (10R3/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Diffuse change to -
B1	0.45 - 0.6 m	Red (10R4/7-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Diffuse change to -
B21	0.6 - 0.75 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	0.75 - 0.9 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	0.9 - 1.05 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.05 - 1.2 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.2 - 1.35 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.35 - 1.6 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.6 - 1.7 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.7 - 1.8 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -

Project Name: **Regional**
Project Code: **REG** **Site ID:** **T231** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

B21	1.8 - 1.95 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B21	1.95 - 2.1 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
B22	2.1 - 2.25 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Clear change to -
B22	2.25 - 2.4 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Clear change to -
B22	2.4 - 2.55 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Clear change to -
B22	2.55 - 2.7 m	Red (10R4/8-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Clear change to -
C	2.7 - 2.8 m	Red (10R4/8-Moist); , 5YR58; , 2.5Y76; Sand; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
C	2.7 - 2.9 m	Red (10R4/8-Moist); ; Sand; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

TORRENS CREEK

Project Name: Regional
Project Code: REG **Site ID:** T231 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.2A	0.009A	1.88H	0.56	0.1	0.02	0.22F	2.05A	2.8F	0.98
								2.9C		0.69
0.1 - 0.2	6.5A	0.01A								
0.2 - 0.3	6.4A	0.011A	0.61H	0.51	0.07	0.02	0.18F	1.69A	1.4F	1.18
0.3 - 0.45	6A	0.008A								
0.45 - 0.6	6A	0.008A								
0.6 - 0.75	5.8A	0.008A	0.09H	0.54	0.08	0.02	0.39F	1.4A	1.1F	1.43
								1C		2.00
0.75 - 0.9	5.5A	0.01A								
0.9 - 1.05	5.2A	0.01A								
1.05 - 1.2	5.7A	0.006A								
1.2 - 1.35	5.7A	0.005A	<0.02H	0.79	0.04	0.02	0.26F	1.25A	1.1F	1.60
								1.1C		1.82
1.35 - 1.6	6A	0.004A								
1.6 - 1.7	6A	0.007A								
1.7 - 1.8	6A	0.007A								
1.8 - 1.95	6.2A	0.006A	<0.02H	0.88	0.04	0.02	0.28F	1.45A	1.2F	1.38
								0.9C		2.22
1.95 - 2.1	6.2A	0.005A								
2.1 - 2.25		0.005A								
2.25 - 2.4		0.004A								
2.4 - 2.55	5.6A	0.005A	<0.02H	0.92	0.04	0.02	0.12F	1.24A	1.1F	1.61
								1C		2.00
2.55 - 2.7		0.005A								
2.7 - 2.8	6.1A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.45D	5B	0.006A	0.016A	0.05A		1	45A	42	3	10
0.1 - 0.2		0.29D	9B		0.016A			2	59A	30	2	8
0.2 - 0.3		0.2D	3B	0.004A	0.019A	0.04A						
0.3 - 0.45								2	53A	34	2	10
0.45 - 0.6								2	49A	37	2	12
0.6 - 0.75				0.005A		0.05A		2	43A	40	3	14
0.75 - 0.9								2	43A	39	3	15
0.9 - 1.05								2	40A	42	3	15
1.05 - 1.2				0.005A		0.04A		3	39A	43	3	15
1.2 - 1.35								3	40A	43	3	15
1.35 - 1.6								5	42A	42	2	14
1.6 - 1.7								9	37A	49	3	15
1.7 - 1.8								9	49A	36	3	13
1.8 - 1.95								17	40A	42	2	15
1.95 - 2.1								27	39A	45	3	13
2.1 - 2.25								42	38A	44	3	15
2.25 - 2.4								40	46A	37	3	13
2.4 - 2.55								26	75A	14	2	9
2.55 - 2.7								33	53A	35	3	9
2.7 - 2.8								0	35A	57	4	3

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat

Project Name: Regional
Project Code: REG **Site ID:** T231 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

m	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
	g/g -			m3/m3				mm/h	mm/h
0 - 0.1									
0.1 - 0.2									
0.2 - 0.3									
0.3 - 0.45									
0.45 - 0.6									
0.6 - 0.75									
0.75 - 0.9									
0.9 - 1.05									
1.05 - 1.2									
1.2 - 1.35									
1.35 - 1.6									
1.6 - 1.7									
1.7 - 1.8									
1.8 - 1.95									
1.95 - 2.1									
2.1 - 2.25									
2.25 - 2.4									
2.4 - 2.55									
2.55 - 2.7									
2.7 - 2.8									

Project Name: **Regional**
Project Code: **REG** **Site ID:** **T231** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
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
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)