Project Name: **Regional**
Project Code: **REG** **Site ID:** **T355** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (QLD)**

Site Information

Desc. By: G.G. Murtha
Date Desc.: 16/06/83
Map Ref.: Sheet No. : 7965 1:100000
Northing/Long.: 145.066666666667
Easting/Lat.: -16.2916666666667
Locality:
Elevation: No Data
Rainfall: 0
Runoff: Moderately rapid
Drainage: Well drained

Geology

ExposureType: Soil pit
Geol. Ref.: Cgm
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 10 %
Pattern Type: Mountains
Relief: No Data
Slope Category: Moderately inclined
Aspect: No Data

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Mesotrophic Red Kandosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: Gn3.14
Great Soil Group: Red podzolic soil

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; , 0-0% ; Coarse sandy clay loam; Moderate grade of structure, 5-10 mm, Cast; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many, medium (2-5mm) roots; Clear change to -
B1	0.1 - 0.2 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; , 0-0% ; Light clay (Light); Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many, fine (1-2mm) roots;
B1	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); , 0-0% ; , 0-0% ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Many, fine (1-2mm) roots; Diffuse change to -
B2	0.3 - 0.6 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Light medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Few, fine (1-2mm) roots;
B2	0.6 - 0.9 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, Angular blocky; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;
B3	0.9 - 1.2 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;
B3	1.2 - 1.5 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, Angular blocky; Moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;
	1.5 - 1.8 m	Red (2.5YR4/6-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, Angular blocky; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;
	1.8 - 2.1 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; , 0-0% ; Medium clay; Weak grade of structure, Angular blocky; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

SOME 5-10MM CHARCOAL FROM 180CM:

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WINDSOR T'LAND

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1										
0.1 - 0.2								2.9A		
0.2 - 0.3								2.5A		
0.3 - 0.6								2.8A		
0.6 - 0.9								2.7A		
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.8										
1.8 - 2.1										

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								35	47A	7	12	33
0.1 - 0.2								33	37A	8	15	40
0.2 - 0.3								34	33A	9	15	43
0.3 - 0.6								17	30A	9	15	46
0.6 - 0.9								10	27A	11	16	46
0.9 - 1.2								17	30A	12	17	41
1.2 - 1.5								19	31A	10	16	42
1.5 - 1.8								18	35A	8	20	37
1.8 - 2.1								18	34A	10	17	38

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 - 0.6									
0.6 - 0.9									
0.9 - 1.2									
1.2 - 1.5									
1.5 - 1.8									
1.8 - 2.1									

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Laboratory Analyses Completed for this profile

15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
2A1	Air-dry moisture content
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 (%)