

Project Name: WQR
Project Code: WQR **Site ID:** B491 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	Locality:	
Date Desc.:	01/11/61	Elevation:	250 metres
Map Ref.:	Sheet No. : 8355 1:100000	Rainfall:	457
Northing/Long.:	147.088888888889	Runoff:	Rapid
Easting/Lat.:	-21.375	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	Auger boring, 2.3 m deep, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Rises
Morph. Type:	No Data	Relief:	6 metres
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Kandosol		Principal Profile Form:	Gn2.15
ASC Confidence:		Great Soil Group:	Red earth
All necessary analytical data are available.			

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

Vegetation: Low Strata - Tussock grass, , . *Species includes - Aristida species
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.13 m	Dark reddish brown (5YR3/3-Moist); ; Loamy sand; Massive grade of structure; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moist; Very weak consistence; Field pH 6.6 (pH meter); Common, fine (1-2mm) roots; Clear change to -
A12	0.13 - 0.28 m	Dark red (2.5YR3/5-Moist); ; Loamy sand; Massive grade of structure; Moist; Very weak consistence; Field pH 6.8 (pH meter); Common, fine (1-2mm) roots; Gradual change to -
A3	0.28 - 0.46 m	Dark red (2.5YR3/6-Moist); ; Clayey sand; Massive grade of structure; Moist; Very weak consistence; Field pH 7 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B1	0.46 - 0.71 m	Dark red (2.5YR3/8-Moist); ; Sandy clay loam (Light); Massive grade of structure; Moist; Very weak consistence; Field pH 7.4 (pH meter); Few, fine (1-2mm) roots; Gradual change to -
B21	0.71 - 1.07 m	Dark red (2.5YR3/6-Dry); ; Sandy medium clay (Light); Weak grade of structure, 10-20 mm, Polyhedral; Moderately moist; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Nodules; Field pH 7.1 (pH meter); Diffuse change to -
B22	1.07 - 1.45 m	Red (2.5YR4/8-Dry); ; Sandy medium clay (Light); Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Very firm consistence; Field pH 6.6 (pH meter); Diffuse change to -
B3	1.45 - 1.98 m	Red (2.5YR4/6-Dry); ; Sandy medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Dry; Very firm consistence; Field pH 6.2 (pH meter); Diffuse change to -
B3	1.98 - 2.34 m	Red (10R4/8-Dry); ; Sandy clay loam; Massive grade of structure; Dry; Firm consistence; Field pH 6.6 (pH meter); Diffuse change to -
C	2.34 - 2.64 m	Dark red (2.5YR3/7-Dry); , 10YR64, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Dry; Firm consistence; Field pH 6.8 (pH meter); Diffuse change to -
C	2.74 - 3.5 m	Light yellowish brown (10YR6/4-Dry); ; Clayey fine sand; Massive grade of structure; Dry; Firm consistence; Field pH 7 (pH meter);

Morphological Notes

Observation Notes

Project Name: WQR
Project Code: WQR **Site ID:** B491 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

YACKAMUNDA H.S

Site Notes

Observation ID: 1

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 - 0.13	6.6H	0.01B	3K	0.75	0.38	0.07	1.32D			
0.13 - 0.28	6.8H	0.01B								
0.28 - 0.46	7H	0.01B	1.9K	0.59	0.42	0.22	0.79D			
0.46 - 0.71	7.4H	0.02B								
0.71 - 1.07	7.1H	0.01B	2.4K	1.6	0.55	0.67	1.3D			
1.07 - 1.45	6.6H	0.01B								
1.45 - 1.98	6.2H	0.01B	1.6K	1.2	0.38	0.67	1.4D			
1.98 - 2.34	6.6H	0.01B								
2.34 - 2.64	6.8H	0.01B	1.4K	0.94	0.24	0.08	2D			
2.74 - 3.5	7H	0.01B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay
0 - 0.13		0.2A	8C	0.041F	0.061B			0	49C	35	8 6
0.13 - 0.28		0.28A			0.029B			0	45C	38	8 9
0.28 - 0.46		0.2A	4C	0.012F	0.025B			0	41C	37	8 13
0.46 - 0.71		0.13A			0.024B			0	38C	33	7 20
0.71 - 1.07		0.1A	3C	0.015F	0.024B				33C	27	7 34
1.07 - 1.45		0.08A			0.019B			0	28C	32	8 33
1.45 - 1.98		0.06A		0.013F	0.016B				30C	32	10 29
1.98 - 2.34		0.04A			0.013B			0	33C	32	9 24
2.34 - 2.64		0.05A		0.01F	0.011B			0	38C	36	10 15
2.74 - 3.5					0.009B			0	54C	29	8 8

[illegible]

Project Name: WQR
Project Code: WQR **Site ID:** B491 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - 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