Project Name: WQR

Project Code: WQR Site ID: B144 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: G.D. Hubble Locality:

 Date Desc.:
 23/08/51
 Elevation:
 189 metres

 Map Ref.:
 Sheet No.: 7255
 1:100000
 Rainfall:
 400

 Northing/Long.:
 141.566666666667
 Runoff:
 Slow

Easting/Lat.: -21.402777777778 Drainage: Moderately well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Auger boring, 1 m deep, Porous, Mudstone

Land Form

Rel/Slope Class:No DataPattern Type:PeneplainMorph. Type:Upper-slopeRelief:15 metresElem. Type:HillslopeSlope Category:No DataSlope:0 %Aspect:No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Self-Mulching Brown VertosolPrincipal Profile Form:Ug5.22

ASC Confidence: Great Soil Group: Brown clay

All necessary analytical data are available.

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

Vegetation:

Tall Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Astrebla species

Surface Coarse Fragments: 0-2%, , , Mudstone

Profile Morphology

AB 0 - 0.1 m Yellowish brown (10YR5/4-Moist); ; Medium heavy clay; Strong grade of structure, Granular; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Field pH 8 (pH meter); Clear change to -

B2 0.1 - 0.46 m Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Strong grade of structure, 50-100 mm, Angular blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous,

medium gravelly, 6-20mm, subrounded, coarse fragments; Very few (0 - 2 %), Calcareous, , Nodules; Very few (0 - 2 %), Gypseous, , Crystals; Field pH 7.4 (pH meter); Gradual change to

B2 0.46 - 0.86 m Yellowish brown (10YR5/4-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subrounded, coarse fragments; Very few

(0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals; Field pH 7.7 (pH meter);

Gradual change to -

B3 0.91 - 1.17 m Grey (2.5Y5/1-Moist); , 10YR68; Heavy clay; Massive grade of structure; Moist; Firm

consistence; Very few (0 - 2 %), Calcareous, , Nodules; Few (2 - 10 %), Gypseous, , Crystals;

Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

0-10CM GRANULAR GRADING TO BLOCKY STRUCTURE

Site Notes

MCKINLAY

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Laboratory Test Results:

Depth	рН	1:5 EC		nangeable ⁄lg	Cations K	E Na	xchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	oa i	"Y	K	Cmol (+)	•				Ç	%
0 - 0.1 0.1 - 0.46	8H 7.4H	0.05B 1.67B	-	11.1	1.95	0.9	1.08D			58E		
0.46 - 0.86 0.91 - 1.17	7.7H 7.8H	2.35B 4.67B	17.8K	7.9	1.4	17.5	0.37D			45.6E		
								_				
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	article CS	Size A	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0.020	0.44E	230C	0.071F		51B		2	1C	16	19	63
0.1 - 0.46				0.068F				1	1C	16	18	63
0.46 - 0.86	0.070			0.05F					<1C	13	19	64
0.91 - 1.17	0.140	,		0.035F					<1C	5	28	66
Depth	COLE Gravimetric/Volumetric Water Contents K sat K ur Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar									K unsat	:	
m		Jai.	U.UJ Dal		g - m3/m3		J Dai 13	Dai	mm	/h	mm/h	

0 - 0.1 0.1 - 0.46 0.46 - 0.86 0.91 - 1.17

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Laboratory Analyses Completed for this profile

15 NR Sum of Ex. cations + Ex. acidity - Not recorded

15_NR_CA Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded

15_NR_H Hydrogen Cation - meg 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 Exch. basic cations (Na++) - med per 100g of soil - Not recorded Calcium Carbonate (CaCO3) - Not recorded 15_NR_NA

19B_NR

Loss on Ignition (%) 2 LOI Air-dry moisture content 2A1

3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

5_NR Water soluble Chloride - Cl(%) - Not recordede

Organic carbon (%) - Not recorded 6Z 7_NR Total nitrogen (%) - Not recorded Available P (mg/kg) - Not recorded Total element - P(%) - Not recorded 9_NR 9A_NR

P10_GRAV Gravel (%)

P10_NR_C

Clay (%) - Not recorded Coarse sand (%) - Not recorded Fine sand (%) - Not recorded P10_NR_CS P10_NR_FS P10_NR_Z Silt (%) - Not recorded