Project Name: Regional

Observation ID: 1 **Project Code:** REG Site ID: T221

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: G.G. Murtha Locality: 2.1KM east along track from Rocky Springs

> Homestead: 61 metres 1140

Date Desc.: 06/12/73 Elevation: Map Ref.: Sheet No.: 8259 1:100000 Rainfall: Northing/Long.: 146.891666666667 Runoff: Rapid Easting/Lat.: -19.3791666666667 Drainage: Well drained

Geology

Conf. Sub. is Parent. Mat.: ExposureType: Undisturbed soil core No Data

Geol. Ref.: **Substrate Material:** Undisturbed soil core, 1.2 m deep, Andesite

Land Form

Rel/Slope Class: Gently undulating rises 9-30m Pattern Type: Rises

1-3%

Morph. Type: Mid-slope Relief: 12 metres Slope Category: Gently inclined Elem. Type: Hillslope Slope: 3 % Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Ferric Eutrophic Red Dermosol **Principal Profile Form:** Dr2.22

ASC Confidence: Great Soil Group: Non-calcic brown

All necessary analytical data are available. soil

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus drepanophylla, Eucalyptus alba,

Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Very dark grey (5YR3/1-Moist);; Loam (Heavy); Weak grade of structure, 5-10 mm, Angular 0 - 0.1 m blocky; Dry; Very firm consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Gradual change to -A2 0.1 - 0.16 m Dark reddish grey (5YR4/2-Moist); ; Loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Moderately moist; Firm consistence; Many (20 - 50 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Clear change to -Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular B21 $0.16 - 0.2 \,\mathrm{m}$ blocky; Moist; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), B21 0.2 - 0.3 m Dark red (2.5YR3/6-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Very few (0 - 2%), Ferromanganiferous, Medium (2 -6 mm), Nodules: B22 0.3 - 0.6 m Dark red (2.5YR3/6-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; 0-2%, subrounded, Andesite, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;

B22 Yellowish red (5YR5/6-Moist); , 10YR63, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Medium 0.6 - 0.9 m

heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm

consistence;

BC 0.9 - 1.13 m Yellowish red (5YR5/6-Moist); , 10YR62, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm,

Distinct; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moist; Very

firm consistence:

С 1.13 - 1.2 m С 1.2 - 1.5 m

Morphological Notes

Soft weathered parent material (113-150CM):

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16-30CM A HORIZON MATERIAL DOWN WORM CASTS:60-113CM W`D PARENT MATERIALINCREASING DOWN PROFILE:

Site Notes

ROCKY SPRINGS

Regional
REG Site ID: T22
CSIRO Division of Soils (QLD) Site ID: T221 Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

Depth	На	1:5 EC	Exch	angeable	Cations	Exc	hangeable	CEC		ECEC		ESP	
- ор	P			lg	K		Acidity				_		
m		dS/m				Cmol (+)/kg	9				,	%	
0 - 0.1	6.4A	<0.05A	15.1B	5.4	1.2	0.07							
0.1 - 0.16	6.2A	<0.05A											
0.16 - 0.2	6.2A	<0.05A	0.0	0.4	0.47	0.00							
0.2 - 0.3	6.3A	<0.05A	9B	3.1	0.47	0.06							
0.3 - 0.6	6.7A	<0.05A											
0.6 - 0.9	7A	<0.05A	10.9B	7.1	0.09	0.16							
0.9 - 1.13	7.2A	<0.05A											
1.13 - 1.2	7.3A	<0.05A											
1.2 - 1.5	7.2A	<0.05A											
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysis	;	
		C	Р	Р	N	K	Density	GV	CS	FS	Silt		
m	%	%	mg/kg	%	%	%	Mg/m3			%		•	
0 - 0.1		3.75D	153B	0.13A	0.2	1A 1.38A		0	15A	27	27	31	
0.1 - 0.16								0	13A	29	26	31	
0.16 - 0.2								0	16A	28	24	32	
0.2 - 0.3			12B	0.058A	١	1.46A		0	14A	27	23	37	
0.3 - 0.6													
0.6 - 0.9								4	6A	12	18	63	
0.9 - 1.13													
1.13 - 1.2			652B	0.082A	١	1.13A							
1.2 - 1.5													
Depth	COLE Gravimetric/Volumetric Water Content					te		Ks	at	K unsat			
Берш								Bar	IV 30	at	it ulisai		
m		g/g - m3/m3								mm/h		mm/h	
				5.	,	-							
0 - 0.1													
0.1 - 0.16													

0.1 - 0.16 0.16 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.13 1.13 - 1.2 1.2 - 1.5

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Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence

Total element - Cu(mg/kg) - HF/HClO4 Digest 12_HF_CU 12_HF_ZN 15A2_CA Total element - Zn(mg/kg) - HF/HClO4 Digest

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 Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2_MG 15A2_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

17A1 Total potassium - X-ray fluorescence

Air-dry moisture content 2A1 3A1 EC of 1:5 soil/water extract 4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

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)

Clay (%) - Coventry and Fett pipette method P10_CF_C

P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method P10_CF_FS P10_CF_Z Fine sand (%) - Coventry and Fett pipette method Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)