Project Name: Regional

Project Code: Site ID: T234 Observation ID: 1 REG

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Locality: G.G. Murtha On road to TV stations 4.1KM from Flinders Highway:

Desc. By: Date Desc.: Elevation: 18/01/78 No Data Sheet No.: 8259 1:100000 Map Ref.: Rainfall: 1200 Northing/Long.: 146.804166666667 Runoff: Rapid Easting/Lat.: -19.35833333333333 Drainage: Well drained

Geology

ExposureType: Existing vertical exposure Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: **Substrate Material:** Existing vertical exposure, 0.9 m C-Pv

deep,Andesite

Land Form

Rel/Slope Class: No Data Pattern Type: Mountains Morph. Type: Mid-slope Relief: No Data Elem. Type: Hillslope Slope Category: Steep Aspect: No Data Slope: 0 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Bleached Eutrophic Red Dermosol **Principal Profile Form:** Dr2.4

ASC Confidence: Great Soil Group: Red podzolic soil

All necessary analytical data are available.

Site Disturbance: No effective disturbance. Natural

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Loam; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; 2-10%, coarse gravelly, 20-60mm, Gravel, coarse fragments;
A2	0.1 - 0.2 m	Dark greyish brown (10YR4/2-Moist); Very pale brown (10YR7/4-Dry); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Weak consistence; 2-10%, cobbly, 60-200mm, Gravel, coarse fragments; Gradual change to -
A2	0.2 - 0.25 m	Dark greyish brown (10YR4/2-Moist); Very pale brown (10YR7/4-Dry); ; Clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Weak consistence; 2-10%, cobbly, 60-200mm, Gravel, coarse fragments;
B1	0.25 - 0.3 m	Yellowish red (5YR5/6-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, Gravel, coarse fragments; Clear change to -
B2	0.3 - 0.45 m	Red (2.5YR5/8-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence; Gradual change to -
B2	0.45 - 0.6 m	Red (2.5YR5/8-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moist; Very firm consistence;
В3	0.6 - 0.8 m	Red (2.5YR5/8-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky; Moist; Very firm consistence;

Morphological Notes

Observation Notes

30-60CM <10% W`D PARENT MATERIAL:60-80CM 50% INCREASING TO 90% OF W`D PARENT MATERIAL:

Site Notes

MT STUART

Regional REG Site ID: T234 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

Laboratory						_					_	
Depth	pН	1:5 EC		nangeable			Exchangeabl	le CEC		ECEC	Е	SP
m		dS/m	Ca M	Иg	K	Na Acidity Cmol (+)/kg					9/	'
		dom				O11101 (+	, ng				,	U
0 - 0.1	6.4A	0.059A	10.4H	2.86	0.33	0.05	0.6F	14.2	Α	14.2F	0.	35
0.1 - 0.2	6.5A	<0.05A	6.04H	2.69	0.16	0.06	0.3F	9.21		9.3F	0.65	
0.2 - 0.25	6.5A	<0.05A					-		-		. 0.00	
0.25 - 0.3	6.5A	<0.05A	5.84H	3.72	0.13	0.08	0.1F	4.17	Α	9.9F	1.92	
0.3 - 0.45	6.5A	<0.05A	6.14H	4.34	0.1	0.11	0.1F	3.72	Α	10.8F	-	
0.45 - 0.6	6.4A	<0.05A	6.84H	4.85	0.09	0.15	0.4F	5.29	Α	12.3F		
0.6 - 0.8	6.5A	<0.05A										
Donth	CaCO3	Organia	Avail.	Total	Total	Total	Bulk	De	ırticle	Size	Analysis	
Depth	CaCOS	Organic C	Avaii. P	P	N	K	Densit		CS	FS	•	Clay
m	%	%	mg/kg	%	%	%	Mg/m3	,	03	%	Jiii (Jiay
			55									
0 - 0.1		2.39D			0.12	28A		20	12A	23	40	25
0.1 - 0.2		1.12D			0.0	6A		14	12A	22	41	26
0.2 - 0.25								10	14A	22	38	26
0.25 - 0.3								<2	A8	21	38	32
0.3 - 0.45								15	10A	21	32	38
0.45 - 0.6								0	9A	21	28	42
0.6 - 0.8								<2	19A	19	24	39
Depth	COLE		Gravi	imetric/Vo	lumetric V	Vater Con	ontents		K sat		K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
m					g - m3/m3	•			mm/		mm/h	

0 - 0.1 0.1 - 0.2 0.2 - 0.25 0.25 - 0.3 0.3 - 0.45 0.45 - 0.6 0.6 - 0.8

Project Name: Regional

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Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

15A2_CEC Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble

15E1_K
15E1_K
15E1_MG
15E1_NA
15E1_NA
15E1_NA
15E1_NA
15E1_C
15E1_NA
15E2_C
15E2_C
15E3_C
15E3_C
15E3_C
15E3_C
15E4_C
15E4_C
15E4_C
15E4_C
15E4_C
15E4_C
15E5_C
15E

titration to pH 8.4

15J1 Effective CEC

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

P10_CF_C
P10_CF_CS
Clay (%) - Coventry and Fett pipette method
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 (%)