

Project Name: Regional
Project Code: REG **Site ID:** T293 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.G. Murtha	Locality:	In national park at mouth of Maria Creek:
Date Desc.:	21/08/80	Elevation:	10 metres
Map Ref.:	Sheet No. : 8162 1:100000	Rainfall:	3500
Northing/Long.:	146.066666666667	Runoff:	Moderately rapid
Easting/Lat.:	-17.766666666667	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	QA	Substrate Material:	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Alluvial fan
Morph. Type:	Crest	Relief:	2 metres
Elem. Type:	Fan	Slope Category:	No Data
Slope:	0 %	Aspect:	0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.84
		Great Soil Group:	Yellow earth

Site Disturbance: No effective disturbance. Natural

Vegetation:

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Melaleuca viridiflora

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark grey (10YR4/1-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Cast; Moist; Weak consistence;
A11	0.1 - 0.2 m	Dark grey (10YR4/1-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Cast; Moist; Weak consistence;
A12	0.2 - 0.3 m	Greyish brown (10YR5/2-Moist); ; Sandy loam; Massive grade of structure; Moist; Weak consistence;
A2	0.3 - 0.6 m	Pale brown (10YR6/3-Moist); ; Sandy loam (Heavy); Massive grade of structure; Moist; Weak consistence;
B	0.6 - 0.9 m	Brownish yellow (10YR6/6-Moist); , 10YR64, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam (Light); Massive grade of structure; Moist; Weak consistence;
2B	0.9 - 1.2 m	Brownish yellow (10YR6/8-Moist); , 5YR58, 2-10% , 5-15mm, Distinct; , 2-10% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Wet; Moderately plastic; Normal plasticity;
2B	1.2 - 1.5 m	Light grey (2.5Y7/2-Moist); , 2.5YR48, 20-50% , 5-15mm, Prominent; , 10YR66, 20-50% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Wet; Moderately plastic; Normal plasticity;

Morphological Notes

Observation Notes

SOME MIXING BY EARTH WORMS IN A2B1 HORIZON

Site Notes

SILKWOOD

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 - 0.1	5.4A	0.026A	0.3H	0.1	0.06	0.05	3.2F	1.3A 3.7C	3.7F	3.85 1.35
0.1 - 0.2	5.3A	0.023A								
0.2 - 0.3	5.3A	0.02A	<0.02H	<0.01	0.04	0.04	1.8F	1.1A 2.3C	1.9F	3.64 1.74
0.3 - 0.6	5.6A	0.02A								
0.6 - 0.9	5.3A	0.02A	<0.02H	0.11	0.04	0.04	0.68F	1.3A 1.3C	0.9F	3.08
0.9 - 1.2	5.2A	0.02A								
1.2 - 1.5	5.2A	0.023A								

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS	FS %	Silt	Clay
0 - 0.1		1.19D	11B	0.007A	0.06A	0.35A		0	30A	48	9	13
0.1 - 0.2								0	29A	48	9	14
0.2 - 0.3		0.52D	11B		0.04A			0	27A	48	10	15
0.3 - 0.6								<2	28A	47	9	16
0.6 - 0.9		0.06D	5B	0.005A	0.04A	0.35A		<2	29A	41	11	20
0.9 - 1.2								<2	20A	32	14	34
1.2 - 1.5								0	19A	31	11	39

[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
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
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
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 (%)