Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **56** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 23/07/90
Map Ref.: Sheet No. : 8058 GPS
Northing/Long.: 7789586 AMG zone: 55
Easting/Lat.: 372562 Datum: AGD66
Locality:
Elevation: 340 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Imperfectly drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Undisturbed soil core, Ferricrete

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 120 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Mesotrophic Brown Kandosol Thin Non-gravelly Clay-loamy Clay-loamy Deep
Mapping Unit: N/A
Principal Profile Form: Gn2.62

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Yellow earth

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Chrysopogon fallax, Aristida species, Heteropogon contortus Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus melanophloia, Acacia bidwillii, Eucalyptus crebra

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus melanophloia, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam (Light); Moderate grade of structure, 2-5 mm, Platy; Earthy fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2	0.03 - 0.2 m	Brown (10YR4/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.2 - 1.05 m	Red (2.5YR5/6-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.3 (Raupach, 0.3); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B22m	1.05 - 1.3 m	; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Fragipan, Strongly cemented, Continuous, Massive; Field pH 7 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0.03 - 0.2	6.6A		1.8B	1	0.39	0.08				
0.2 - 1.05	6.2A		1.4B	2.1	0.14	0.34		3.6I		9.44
1.05 - 1.3	7A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0.03 - 0.2												
0.2 - 1.05												
1.05 - 1.3												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0.03 - 0.2									
0.2 - 1.05									
1.05 - 1.3									

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	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
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
4A1	pH of 1:5 soil/water suspension