Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **77** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 26/07/90
Map Ref.: Sheet No. : 8057 GPS
Northing/Long.: 7735755 AMG zone: 55
Easting/Lat.: 369192 Datum: AGD66
Locality:
Elevation: 330 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: 90 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Mottled Mesotrophic Yellow Kandosol Thin Non-gravelly Sandy Clayey Deep

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Gn2.75
Great Soil Group: Yellow earth

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Aristida species, Chrysopogon fallax
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus melanophloia, Planchonia careya
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus melanophloia, Eucalyptus polycarpa, Acacia species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.03 m	Brown (10YR4/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A2e	0.03 - 0.17 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change
B1	0.17 - 0.4 m	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, fine (1-2mm) roots; Clear, Smooth change to
B21c	0.4 - 0.8 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR58, 20-50% , 0-5mm, Prominent; Mottles, 2.5YR58, 20-50% ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; , Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
2D	0.8 - 1.5 m	Greyish brown (10YR5/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Very firm consistence; Many (20 - 50 %), , , ; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.2); Field pH 8.5 (Raupach, 1.5); Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0.03 - 0.17	6.5A		1.4B	0.85	0.43	0.03				
0.17 - 0.4	6.4A									
0.4 - 0.8	6.9A		1.4B	4.1	0.13	1.1		11B		10.00
			1.4E	4	0.12	1.1		5.8I		18.97
			2.4J	3	0.2	0.3				10.00
										18.97
										2.73
										5.17
0.8 - 1.5	8.2A		2.6B	5.8	0.12	1.7		13B		13.08
			2.1E	6.3	0.13	1.6				12.31

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 - 0.17												
0.17 - 0.4												
0.4 - 0.8												
0.8 - 1.5												

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 - 0.17									
0.17 - 0.4									
0.4 - 0.8									
0.8 - 1.5									

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension