Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1228** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 30/06/92
Map Ref.: Sheet No. : 8059 GPS
Northing/Long.: 7864620 AMG zone: 55
Easting/Lat.: 393807 Datum: AGD66
Locality:
Elevation: 380 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Supracalcic Red Dermosol Medium Non-gravelly Clay-loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Uf6.31

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

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa species, Urochloa mosambicensis, Digitaria speciesMid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus erythrophloia

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.05 m	Dark brown (7.5YR3/3-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.03); Abrupt change to -
A3	0.05 - 0.23 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam, fine sandy; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Clear change to -
B21	0.23 - 0.45 m	Red (2.5YR4/6-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Clear change to -
B3	0.45 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Clay loam, fine sandy; Moderate grade of structure, 20-50 mm, Polyhedral; Smooth-ped fabric; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.5);

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 - 0.05	7.4A		11I	1.7	0.05	0.94				
0.05 - 0.23	7A									
0.23 - 0.45	7.1A									
0.45 - 0.6	7.8A		36I	0.95	0.34	0.06				

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 - 0.05												
0.05 - 0.23												
0.23 - 0.45												
0.45 - 0.6												

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 - 0.05									
0.05 - 0.23									
0.23 - 0.45									
0.45 - 0.6									

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15E2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, pretreatment for soluble salts
15E2_K	Exchangeable bases, CEC and AEC by compulsive exchange, pretreatment for soluble salts
15E2_MG	Exchangeable bases, CEC and AEC by compulsive exchange, pretreatment for soluble salts
15E2_NA	Exchangeable bases, CEC and AEC by compulsive exchange, pretreatment for soluble salts
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension