Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **198** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 08/04/91
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7788059 AMG zone: 55
Easting/Lat.: 456590 Datum: AGD66
Locality:
Elevation: 280 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 0 %
Pattern Type: Rises
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Chromosol Thin Non-gravelly Clay-loamy Clayey Shallow
Mapping Unit: N/A
Principal Profile Form: Dr2.12
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Non-calcic brown soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Bothriochloa pertusa, Heteropogon contortus, Dichanthium sericeum Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

Surface Coarse Fragments: 0-2%, stony, 200-600mm, angular, Granodiorite

Profile Morphology

A1	0 - 0.04 m	Dark brown (7.5YR3/4-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.04 - 0.2 m	Yellowish red (5YR3/6-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B2	0.2 - 0.43 m	Dark red (2.5YR3/6-Moist); Substrate influence, 10YR58, 0-2% , 0-5mm, Distinct; Substrate influence, 0-2% ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
C	0.43 - 0.75 m	; , Calcareous, , ; , Gypseous, , ;

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							%
0.04 - 0.23	6.3A									
0.2 - 0.4	6.5A		9J	4.1	0.1	0.2		11.7I		1.71
0.43 - 0.75	6.8A									

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			%		
0.04 - 0.23												
0.2 - 0.4												
0.43 - 0.75												

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
0.04 - 0.23										
0.2 - 0.4										
0.43 - 0.75										

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Laboratory Analyses Completed for this profile

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