Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **317** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 16/07/91
Map Ref.: Sheet No. : 8255 GPS
Northing/Long.: 7673933 AMG zone: 55
Easting/Lat.: 451424 Datum: AGD66
Locality:
Elevation: 220 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: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 80 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Red Kandosol Thick Non-gravelly Silty Silty Very deep
Mapping Unit: N/A
Principal Profile Form: Gn2.25

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Red earth

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Dicanthium fecundum, Bothriochloa bladhii

Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii, Eucalyptus microneura

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Silty loam (Light); Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Coarse (>5mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Field pH 6.5 (Raupach, 0.3); Common, fine (1-2mm) roots; Diffuse, Smooth change to -
A3	0.3 - 0.7 m	Dark brown (10YR3/3-Moist); ; Silty clay loam (Light); Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Coarse (>5mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Few, fine (1-2mm) roots; Diffuse, Smooth change to -
B21	0.7 - 1.35 m	Yellowish red (5YR5/6-Moist); ; Silty light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Coarse (>5mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.9); Few, fine (1-2mm) roots; Diffuse, Smooth change to -
2C	1.35 - 1.8 m	Yellowish red (5YR5/6-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Coarse (>5mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1.8); Few, very fine (0-1mm) 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 - 0.3	6.9A									
0.3 - 0.7	6.7A									
0.7 - 1.35	6.8A		5.2J	1.9	0.4	0.1		10.5I		0.95
1.35 - 1.8	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 - 0.3												
0.3 - 0.7												
0.7 - 1.35												
1.35 - 1.8												

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 - 0.3										
0.3 - 0.7										
0.7 - 1.35										
1.35 - 1.8										

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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