Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **162** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 19/09/90
Map Ref.: Sheet No. : 8058 GPS
Northing/Long.: 7805269 AMG zone: 55
Easting/Lat.: 353836 Datum: AGD66
Locality:
Elevation: 380 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: Plain
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Manganic Eutrophic Red Ferrosol Thin Non-gravelly Clay-loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Gn3.12
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Euchrozem

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa ewartiana, Themeda triandra,

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

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.06 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.06 - 0.75 m	Dark red (2.5YR3/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Polyhedral; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Many (20 - 50 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Many, 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 Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.06	7.2A		13B	4.7	1.5	0.09				
0.06 - 0.75	6.9A		8.9J	3.4	0.6	0.1		14.5I		0.69

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 - 0.06												
0.06 - 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 - 0.06										
0.06 - 0.75										

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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
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