Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **143** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 06/09/90
Map Ref.: Sheet No. : 7960 GPS
Northing/Long.: 7903933 AMG zone: 55
Easting/Lat.: 300227 Datum: AGD66
Locality:
Elevation: 420 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: Ridge
Elem. Type: Levee
Slope: 1 %
Pattern Type: Alluvial plain
Relief: No Data
Slope Category: Level
Aspect: 200 degrees

Surface Soil Condition (dry): Loose

Erosion:

Soil Classification

Australian Soil Classification:
Basic Regolithic Orthic Tenosol Medium Non-gravelly Loamy Clay-loamy Deep
Mapping Unit: N/A
Principal Profile Form: Uc4.32

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Earthy sand

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Heteropogon contortus, Dichanthium species

Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Lysiphillum carronii

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus papuana, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, fine (1-2mm) roots; Clear, Smooth change to -
A3	0.12 - 0.4 m	Brown (7.5YR4/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Few, medium (2-5mm) roots; Gradual, Smooth change to -
B1	0.4 - 0.65 m	Strong brown (7.5YR4/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.65 - 1 m	Strong brown (7.5YR4/6-Moist); ; Clayey sand; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Quartzite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1); Clear, Smooth change to -
B22	1 - 1.1 m	Strong brown (7.5YR5/6-Moist); ; Sandy clay loam (Light); Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Very few (0 - 2 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , 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 - 0.12	6.8A		4.2B	2	0.53	0.08				
0.12 - 0.4	6.7A									
0.4 - 0.65	6.8A		1.6B	1.4	0.18	0.05		2.8I		1.79
			2.9J	1.3	0.3	0.1				3.57
0.65 - 1	6.9A									

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 - 0.12												
0.12 - 0.4												
0.4 - 0.65												
0.65 - 1												

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 - 0.12									
0.12 - 0.4									
0.4 - 0.65									
0.65 - 1									

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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