Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **41** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 17/07/90
Map Ref.: Sheet No. : 8057 GPS
Northing/Long.: 7766009 AMG zone: 55
Easting/Lat.: 386820 Datum: AGD66
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: Very slow
Drainage: Imperfectly 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:
Sodic Mesotrophic Grey Kandosol Medium Non-gravelly Sandy Clayey Deep
Mapping Unit: N/A
Principal Profile Form: Gn2.82

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

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Eragrostis species, Chrysopogon

Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Melaleuca viridiflora, Eucalyptus melanophloia, Acacia species

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.04); Common, very fine (0-1mm) roots; Clear, Smooth change to -
A3	0.08 - 0.25 m	Brown (10YR5/3-Moist); ; Sandy loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.7 (Raupach, 0.2); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.25 - 0.75 m	Pale brown (10YR6/3-Moist); Mottles, 10YR68, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Sandy clay loam (Light); Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Wet; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.4); Few, very fine (0-1mm) roots; Clear, Smooth change to -
2A2ecb	0.75 - 1.1 m	Pale brown (10YR6/3-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Wet; Loose consistence; Many (20 - 50 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.9); Abrupt, Smooth change to
2B2b	1.1 - 1.15 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 10-20% , 0-5mm, Distinct; Mottles, 10-20% ; Heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.15);

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 - 0.08	5.2A		0.41B	0.27	0.15	0.03				
0.08 - 0.25	5.4A									
0.25 - 0.75	6.3A		0.72B	0.74	0.02	0.14		3.5I		4.00
			1.1J	0.6	0	0.2				5.71
0.75 - 1.1	6.9A									
1.1 - 1.15	6.9A		0.23B	1.7	0.04	0.86				

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 - 0.08												
0.08 - 0.25												
0.25 - 0.75												
0.75 - 1.1												
1.1 - 1.15												

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 - 0.08										
0.08 - 0.25										
0.25 - 0.75										
0.75 - 1.1										
1.1 - 1.15										

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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