Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **52** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 19/07/90
Map Ref.: Sheet No. : 7956 GPS
Northing/Long.: 7719601 AMG zone: 55
Easting/Lat.: 333420 Datum: AGD66
Locality:
Elevation: 420 metres
Rainfall: No Data
Runoff: Slow
Drainage: Moderately 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: Gently undulating plains <9m 1-3%
Morph. Type: Flat
Elem. Type: Plain
Slope: 2 %
Pattern Type: Plain
Relief: No Data
Slope Category: Very gently sloped
Aspect: 30 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled-Sodic Dystrophic Red Kandosol Medium Non-gravelly Sandy Clay-loamy Very deep
Mapping Unit: N/A
Principal Profile Form: Gn2.22

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

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

Vegetation: Low Strata - Hummock grass, 0.26-0.5m, Mid-dense. *Species includes - Triodia pungens, Aristida species, Phynchelytrum repens Mid Strata - Tree, 1.01-3m, Mid-dense. *Species includes - Petalostigma pubescens, Eucalyptus erythrophloia, Eucalyptus melanophloia

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.13 m	Brown (10YR4/3-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.04); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B1	0.13 - 0.38 m	Yellowish red (5YR5/6-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.2 (Raupach, 0.3); Common, very fine (0-1mm) roots; Diffuse, Smooth change to -
B21	0.38 - 1.3 m	Yellowish red (5YR5/8-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Gradual, Smooth change to -
B22	1.3 - 1.68 m	Reddish yellow (7.5YR6/8-Moist); Mottles, 10R48, 10-20% , 0-5mm, Prominent; Mottles, 10-20% ; Sandy clay loam; Weak grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 1.5); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B31	1.68 - 1.98 m	Brownish yellow (10YR6/8-Moist); Mottles, 10R48, 10-20% , 5-15mm, Prominent; Mottles, 7.5YR58, 10-20% ; Sandy clay loam; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 1.8); Clear, Smooth change to -
B32	1.98 - 2.1 m	Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR58, 20-50% , 15-30mm, Prominent; Mottles, 2.5YR48, 20-50% ; Coarse sandy clay loam; Weak grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 2.1);

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Observation Notes

Site Notes

Morphological 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 - 0.13	5.2A		0.68B	0.36	0.07	0.03				
0.13 - 0.38	5.3A									
0.38 - 1.3	5.6A		0.5J	0.7	0	0.2		2I		10.00
1.3 - 1.68	5.9A		0.19B	1	0.03	0.06				
1.68 - 1.98	6A									
1.98 - 2.1	6.1A									

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 - 0.13												
0.13 - 0.38												
0.38 - 1.3												
1.3 - 1.68												
1.68 - 1.98												
1.98 - 2.1												

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 - 0.13									
0.13 - 0.38									
0.38 - 1.3									
1.3 - 1.68									
1.68 - 1.98									
1.98 - 2.1									

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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