Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **16** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 25/06/90
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7745472 AMG zone: 55
Easting/Lat.: 491506 Datum: AGD66
Locality:
Elevation: 170 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: Fan
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 180 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Brown Chromosol Very thick Non-gravelly Sandy Clay-loamy Very deep
Mapping Unit: N/A
Principal Profile Form: Dy4.82

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: No suitable group

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - , , . *Species includes - Eragrostis species, Bothriochloa pertusa, Perotis rara
Mid Strata - , , . *Species includes - Eucalyptus platyphylla, Eucalyptus brownii
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus platyphylla, Eucalyptus brownii

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.12 m	Brown (10YR4/3-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A12	0.12 - 0.48 m	Yellowish brown (10YR5/6-Moist); ; Sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A21	0.48 - 1 m	Yellowish brown (10YR5/6-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Field pH 6.8 (Raupach, 1); Clear, Smooth change to -
A22e	1 - 1.22 m	Yellowish brown (10YR5/6-Moist); ; Clayey coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B21	1.22 - 1.6 m	Yellowish brown (10YR5/6-Moist); ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moderately moist; Firm consistence; 10-20%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1.3); Clear, Smooth change to -
B22	1.6 - 1.9 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5Y78, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Coarse sandy clay loam; Weak grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Moist; Firm consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.8);

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	7.7A		3.1B	0.9	0.32	0.04				
0.12 - 0.48	8A									
0.48 - 1	8.2A		1.9B	0.75	0.11	0.05				
1 - 1.22	8A									
1.22 - 1.6	8.3A		5.7J	2	0.5	0		10.5l		0.00
1.6 - 1.9	8.4A		5.7B	2.1	0.38	0.1				

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 - 0.48												
0.48 - 1												
1 - 1.22												
1.22 - 1.6												
1.6 - 1.9												

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 - 0.48									
0.48 - 1									
1 - 1.22									
1.22 - 1.6									
1.6 - 1.9									

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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