Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **87** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 07/08/90
Map Ref.: Sheet No. : 8156 GPS
Northing/Long.: 7730676 AMG zone: 55
Easting/Lat.: 417029 Datum: AGD66
Locality:
Elevation: 260 metres
Rainfall: No Data
Runoff: Very 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: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 210 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Mesotrophic Brown Chromosol Medium Non-gravelly Loamy Clayey Very deep
Mapping Unit: N/A
Principal Profile Form: Dy2.62

ASC Confidence:
No analytical data are available but confidence is fair.
Great Soil Group: No suitable

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Eriachne species, Chrysopogon fallax
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus melanophloia, Eremophila mitchellii, Erythroxylon australe

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.1 m	Dark yellowish brown (10YR3/4-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Abundant, medium (2-5mm) roots; Clear, Smooth change to -
A2	0.1 - 0.2 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Heavy); Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Abundant, medium (2-5mm) roots; Clear, Smooth change to -
B21	0.2 - 0.68 m	Strong brown (7.5YR5/8-Moist); ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Abundant, medium (2-5mm) roots; Clear, Smooth change to -
B22c	0.68 - 0.99 m	Reddish yellow (7.5YR6/6-Moist); Mottles, 7.5YR68, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Clay loam, sandy; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.9); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
2A2ebc	0.99 - 1.2 m	Pink (7.5YR7/4-Moist); Mottles, 7.5YR78, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; Loose consistence; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.2); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
2B21bc	1.2 - 1.45 m	Olive yellow (2.5Y6/8-Moist); Mottles, 2.5Y62, 20-50% , 5-15mm, Distinct; Mottles, 5YR58, 20-50% ; Medium heavy clay; Strong grade of structure, 5-10 mm, Platy; Smooth-ped fabric; Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Very many (50 - 100 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -

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2B22bc	1.45 - 1.65 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y65, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Strong consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Many (20 - 50 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 1.65);

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 - 0.1	6.3A		1.7B	0.87	0.52	0.04				
0.2 - 0.68	6.4A		0.83B	1.7	0.15	0.13		3.6I		3.61
			1.4J	1.8	0.4	0.2				5.56
0.68 - 0.99	6.2A		0.64B		0.08	0.47				
0.99 - 1.2	7A									
1.45 - 1.65	8.9A									

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 - 0.1												
0.2 - 0.68												
0.68 - 0.99												
0.99 - 1.2												
1.45 - 1.65												

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 - 0.1									
0.2 - 0.68									
0.68 - 0.99									
0.99 - 1.2									
1.45 - 1.65									

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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