Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2340** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 26/10/94
Map Ref.: Sheet No. : 7960 GPS
Northing/Long.: 7944984 AMG zone: 55
Easting/Lat.: 319024 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Poorly 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: 0.5 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Grey Chromosol Medium Non-gravelly Clay-loamy Clayey Deep
Mapping Unit: N/A
Principal Profile Form: Dy3.32
ASC Confidence:
Confidence level not specified
Great Soil Group: Gleyed podzolic soil

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

Vegetation:
Low Strata - Tussock grass, 0.51-1m, Very sparse. *Species includes - Chrysopogon fallax, Bothriochloa species

Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Eucalyptus platyphylla

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus platyphylla, Eucalyptus tessellaris

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.03 m	Black (10YR2/1-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Clear change to -
A2j	0.03 - 0.12 m	Black (10YR2/1-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Abrupt change to -
B21	0.12 - 0.28 m	Dark grey (10YR4/1-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.28); Gradual
B22	0.28 - 0.55 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10YR56, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Medium clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.5); Gradual change to -
B23	0.55 - 0.9 m	Grey (10YR5/1-Moist); Mottles, 7.5YR58, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.9);

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 - 0.03	6.5A		14B	9.4	2.3	0.66				
0.12 - 0.28	7.8A									
0.55 - 0.9	5.7A									

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 - 0.03												
0.12 - 0.28												
0.55 - 0.9												

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 - 0.03									
0.12 - 0.28									
0.55 - 0.9									

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Laboratory Analyses Completed for this profile

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
4A1	pH of 1:5 soil/water suspension