Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1281** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 22/07/92
Map Ref.: Sheet No. : 8059 GPS
Northing/Long.: 7867549 AMG zone: 55
Easting/Lat.: 343985 Datum: AGD66
Locality:
Elevation: 380 metres
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: Undisturbed soil core, No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Flat
Elem. Type: No Data
Slope: 1 %
Pattern Type: No Data
Relief: No Data
Slope Category: Level
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Sodic Eutrophic Black Dermosol Medium Non-gravelly Clay-loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dd2.13
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: No suitable group

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Chloris species, Aristida species, Chrysopogon fallax

Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii, Atalaya hemiglauca

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark yellowish brown (10YR4/4-Moist); ; Fine sandy clay loam (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.03); Clear change to -
A12	0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Clay loam, fine sandy; Massive grade of structure; Earthy fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Clear change to -
B21	0.2 - 0.75 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.5); Gradual change to -
B22	0.75 - 0.9 m	Greyish brown (10YR5/2-Moist); Mottles, 10YR56, 20-50% , Prominent; Mottles, 20-50% ; Light clay; Moderate grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 9 (Raupach, 0.8);

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 - 0.1	5A		1.1B	1.6	0.24	0.93				
0.2 - 0.75	5.9A		4.4B	12	0.29	12				
0.75 - 0.9	8.3A									

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 - 0.75												
0.75 - 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 - 0.1										
0.2 - 0.75										
0.75 - 0.9										

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension