Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2380** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 27/10/94
Map Ref.: Sheet No. : 7960 GPS
Northing/Long.: 7906329 AMG zone: 55
Easting/Lat.: 317932 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Existing vertical exposure, Siltstone

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 4 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached Eutrophic Brown Chromosol Thin Very gravelly Clay-loamy Clayey Shallow

Mapping Unit: N/A
Principal Profile Form: Dy3.42

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

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 - Chrysopogon fallax, Heteropogon contortus

Mid Strata - , , . *Species includes - None recorded

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

Surface Coarse Fragments: 50-90%, , , Metamorphic rock (unidentified)

Profile Morphology

A	0 - 0.03 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular tabular, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.03); Clear change to -
B1	0.03 - 0.15 m	Reddish yellow (7.5YR6/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6-20mm, subangular tabular, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.1); Gradual change to -
B2	0.15 - 0.4 m	Strong brown (7.5YR5/8-Moist); , 5YR56, 10-20% , 0-5mm, Distinct; , 10-20% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 20-50%, medium gravelly, 6-20mm, subangular tabular, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.28); Gradual change to -
C	0.4 - 0.7 m	; 50-90%, medium gravelly, 6-20mm, subangular tabular, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.55);

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	6.3A		2.6B	4.3	0.41	0.2				
0.15 - 0.4	6A									

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												
0.15 - 0.4												

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										
0.15 - 0.4										

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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