Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **338** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 30/07/91
Map Ref.: Sheet No. : 8157 GPS
Northing/Long.: 7743391 AMG zone: 55
Easting/Lat.: 429114 Datum: AGD66
Locality:
Elevation: 340 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Imperfectly drained

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: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Subnatric Brown Sodosol Medium Slightly gravelly Silty Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dy3.43
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Eragrostis species, Chrysopogon fallax

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

Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, rounded, Siltstone

Profile Morphology

A1	0 - 0.07 m	; Silty loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -
A2e	0.07 - 0.15 m	; Silty loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Abrupt, Smooth change to -
B1	0.15 - 0.3 m	Mottles, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Clear, Smooth change to -
B21	0.3 - 0.7 m	Yellowish brown (10YR5/8-Moist); Mottles, 20-50% , 0-5mm, Distinct; Mottles, 20-50% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6);

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							%
0.3 - 0.7	7.6A		2.6J	17.6	0.1	2.8		26.5I		10.57

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			%		
0.3 - 0.7												

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
0.3 - 0.7										

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Laboratory Analyses Completed for this profile

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