Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2230** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	Rogers, Gary	**Locality:**	
Date Desc.:	03/11/93	**Elevation:**	No Data
Map Ref.:	Sheet No. : 7959 GPS	**Rainfall:**	No Data
Northing/Long.:	7847862 AMG zone: 55	**Runoff:**	Very slow
Easting/Lat.:	329884 Datum: AGD66	**Drainage:**	Moderately well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Undisturbed soil core, No Data

Land Form

Rel/Slope Class:	Undulating plains <9m 3-10%	**Pattern Type:**	Plain
Morph. Type:	Mid-slope	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Gently inclined
Slope:	5 %	**Aspect:**	No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep

Mapping Unit: N/A
Principal Profile Form: Ug5.24

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: Grey clay

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Ophiurous exaltatus, Themeda triandra
Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia
Tall Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Eucalyptus erythrophloia, Eucalyptus papuana, Eucalyptus crebra

Surface Coarse Fragments: 0-2%, , subrounded, Calcrete

Profile Morphology

A1	0 - 0.06 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Granular; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.03); Abrupt change to -
B21	0.06 - 0.45 m	Greyish brown (10YR5/2-Moist); Mottles, 10YR62, 2-10% , 15-30mm, Prominent; Mottles, 2-10% ; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.2); Gradual change to -
B22	0.45 - 0.7 m	Brown (7.5YR5/2-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 0.6); Clear change to -
B23	0.7 - 0.9 m	Dark grey (10YR4/1-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Lenticular; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.8); Clear change to -
B24	0.9 - 1.1 m	Light grey (10YR7/2-Moist); ; Light clay (Heavy); Strong grade of structure, 20-50 mm, Lenticular; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 8 (Raupach, 1); Clear change to -
B25	1.1 - 1.4 m	Brown (7.5YR5/3-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Lenticular; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8 (Raupach, 1.2); Gradual change to -

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B26	1.4 - 2 m	Light grey (10YR7/2-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, faint; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8 (Raupach, 1.6); Gradual change to -
	2 - 2.15 m	Light brownish grey (10YR6/2-Moist); ; Clay loam, sandy; Massive grade of structure, 20-50 mm; Earthy fabric; Very firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 2.1);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%

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			%		

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

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Laboratory Analyses Completed for this profile