Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1950** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Bright, J (Mitch)
Date Desc.: 22/09/93
Map Ref.: Sheet No. : 7858 GPS
Northing/Long.: 7831774 AMG zone: 55
Easting/Lat.: 273471 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Slow
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Very gently sloped
Aspect: No Data

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Very deep
Mapping Unit: N/A
Principal Profile Form: Ug5.15

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Black earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Heteropogon contortus, Dichanthium sericeum

Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus platyphylla

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

Surface Coarse Fragments: 10-20%, fine gravelly, 2-6mm, subrounded, Quartz

Profile Morphology

A11	0 - 0.04 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium clay; Strong grade of structure, <2 mm, Granular; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 7.5 (Raupach, 0.02); Clear change to -
B1	0.04 - 0.32 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Polyhedral; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.2); Gradual change to -
B21	0.32 - 0.65 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.5); Gradual change to -
B22	0.65 - 1.2 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.9); Clear change to -
B23k	1.2 - 1.65 m	Brown (7.5YR4/4-Moist); ; Light medium clay; Moderate grade of structure, <2 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very many (50 - 100 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 1.3); Gradual change to -

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B24	1.65 - 2.5 m	Dark yellowish brown (10YR4/4-Moist); ; Clay loam; Moderate grade of structure, <2 mm, Angular blocky; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 8.5 (Raupach, 2);

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	Avail.	Total	Total	Total	Bulk	Particle Size Analysis				
		C	P	P	N	K	Density	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