Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **603** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M.G. Cannon
Date Desc.: 24/05/91
Map Ref.: Sheet No. : 8159-2 GPS
Northing/Long.: 7844503 AMG zone: 55
Easting/Lat.: 430625 Datum: AGD66
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Imperfectly 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 rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Footslope
Slope: 4 %
Pattern Type: Rises
Relief: No Data
Slope Category: Gently inclined
Aspect: 210 degrees

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:
No analytical data are available but confidence is fair.
Great Soil Group: Black earth

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 1.01-3m, Mid-dense. *Species includes - Heteropogon contortus, Bothriochloa species, Dichanthium species Mid Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus papuana

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus polycarpa

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.15 m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Strong grade of structure, <2 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.8 (Raupach, 0.05); Clear change to -
B1	0.15 - 0.4 m	Very dark brown (10YR2/2-Moist); ; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.3); Clear change to -
B21	0.4 - 0.65 m	Black (10YR2/1-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Dolerite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6); Clear change to -
B22c	0.65 - 1.75 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Field pH 9 (Raupach, 1.2); Gradual change to -
B23k	1.75 - 2.1 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; , Gypseous, , ; Field pH 9.5 (Raupach, 1.8);

Morphological Notes

Observation Notes

Site Notes

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
Project Code: DLR **Site ID:** 603 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.15	7A									
0.15 - 0.4	8.8A									
0.4 - 0.65	7.8A									
0.65 - 1.75	8.8A									
1.75 - 2.1	8.9A									

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 - 0.15												
0.15 - 0.4												
0.4 - 0.65												
0.65 - 1.75												
1.75 - 2.1												

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 - 0.15										
0.15 - 0.4										
0.4 - 0.65										
0.65 - 1.75										
1.75 - 2.1										

Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **603** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Laboratory Analyses Completed for this profile

4A1	pH of 1:5 soil/water suspension