Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1322** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 05/08/92
Map Ref.: Sheet No. : 8059 GPS
Northing/Long.: 7887631 AMG zone: 55
Easting/Lat.: 368540 Datum: AGD66
Locality:
Elevation: No Data
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: Undisturbed soil core, No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 9 %
Pattern Type: Low hills
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Red Chromosol Thick Very gravelly Clay-loamy Clayey Deep
Mapping Unit: N/A
Principal Profile Form: Dr2.13
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Non-calcic brown soil

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

Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Themeda triandra, Heteropogon triticeus
Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Acacia bidwillii, Grevillea parallela
Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Eucalyptus crebra, Eucalyptus erythrophloia, Eucalyptus papuana

Surface Coarse Fragments: 50-90%, coarse gravelly, 20-60mm, subangular, Quartz sandstone

Profile Morphology

A11	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 50-90%, medium gravelly, 6-20mm, angular, Substrate material, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.1); Clear change to -
A12	0.12 - 0.3 m	Dark brown (7.5YR3/3-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Loose consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.25); Abrupt change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.5); Gradual change to -
B22	0.6 - 0.8 m	Light olive brown (2.5Y5/4-Moist); Mottles, 5YR46, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Light medium clay; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Soft segregations; , Calcareous, , ; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 6.5 (Raupach, 0.7); Clear change to -
B3	0.8 - 1.1 m	Dark greyish brown (2.5Y4/3-Moist); Mottles, 2.5Y64, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.1);

Morphological Notes

Observation Notes

Site Notes

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Project Code: DLR **Site ID:** 1322 **Observation ID:** 1
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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							%
0 - 0.12	6.5A		5.9B	2.8	0.53	0.04				
0.3 - 0.6	6.2A		10B	11	0.17	0.15				
0.6 - 0.8	6.8A									
0.8 - 1.1	8.1A									

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 - 0.12												
0.3 - 0.6												
0.6 - 0.8												
0.8 - 1.1												

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 - 0.12									
0.3 - 0.6									
0.6 - 0.8									
0.8 - 1.1									

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension