Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **1262** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: Rogers, Gary
Date Desc.: 29/06/92
Map Ref.: Sheet No. : 8059 GPS
Northing/Long.: 7854583 AMG zone: 55
Easting/Lat.: 392027 Datum: AGD66
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: Moderately rapid
Drainage: Well 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 plains <9m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 3 %
Pattern Type: Plain
Relief: No Data
Slope Category: Gently inclined
Aspect: No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Ferric-Petroferric Red Kandosol Thick Non-gravelly Sandy Clay-loamy Moderately deep
Mapping Unit: N/A
Principal Profile Form: Gn2.12
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Red earth

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

Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Aristida species, Heteropogon contortus
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia species
Tall Strata - , , . *Species includes - Eucalyptus crebra, Eucalyptus polycarpa

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.14 m	Dark brown (7.5YR3/3-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Many (20 - 50 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Abrupt change to -
A12	0.14 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Many (20 - 50 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.2); Clear change to -
B1	0.3 - 0.45 m	Reddish brown (2.5YR5/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Very many (50 - 100 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.35); Clear change to -
B2	0.45 - 0.75 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Very many (50 - 100 %), Ferromanganiferous, Very coarse (20 - 60 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.55);

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							%
0 - 0.14	6.5A		4.6B	0.68	0.33	0.03				
0.14 - 0.3	6.7A									
0.3 - 0.45	6.5A									
0.45 - 0.75	6.1A		1.5B	0.79	0.2	0.04				

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 - 0.14												
0.14 - 0.3												
0.3 - 0.45												
0.45 - 0.75												

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 - 0.14										
0.14 - 0.3										
0.3 - 0.45										
0.45 - 0.75										

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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