Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **103** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 10/08/90
Map Ref.: Sheet No. : 8255 GPS
Northing/Long.: 7669224 AMG zone: 55
Easting/Lat.: 481386 Datum: AGD66
Locality:
Elevation: 200 metres
Rainfall: No Data
Runoff: Very rapid
Drainage: Well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Existing vertical exposure, Sandstone

Land Form

Rel/Slope Class: Steep low hills 30-90m 32-56%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 33 %
Pattern Type: Low hills
Relief: No Data
Slope Category: Steep
Aspect: 340 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Dystrophic Brown Kandosol Medium Very gravelly Loamy Clay-loamy Moderately deep
Mapping Unit: N/A
Principal Profile Form: Gn2.44
ASC Confidence:
No analytical data are available but confidence is fair.
Great Soil Group: Yellow earth

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

Vegetation:

Low Strata - , , . *Species includes - None recorded
Mid Strata - Tree, 3.01-6m, Very sparse. *Species includes - Acacia species, Erythroxylon australe
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Acacia shirleyi, Acacia species

Surface Coarse Fragments: 90-100%, cobbly, 60-200mm, angular,

Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 90-100%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Gradual, Smooth change to -
A2	0.1 - 0.28 m	Brown (10YR4/3-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; 90-100%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Few, fine (1-2mm) roots; Clear, Smooth
B21	0.28 - 0.7 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Firm consistence; 90-100%, coarse gravelly, 20-60mm, rounded, dispersed, Sandstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 4.5 (Raupach, 0.4); Clear, Tongued change to -
C	0.7 - 0.8 m	; , Calcareous, , ; , Gypseous, , ;

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 - 0.1	4.5A		0.89B	0.28	0.36	0.04				
0.28 - 0.7	5A		0.7B	0.53	0.23	0.09		2.8I		3.21
			1.8J	0.6	0.9	0.1				3.57

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 - 0.1												
0.28 - 0.7												

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 - 0.1									
0.28 - 0.7									

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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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension