Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **119** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 24/08/90
Map Ref.: Sheet No. : 7959 GPS
Northing/Long.: 7894642 AMG zone: 55
Easting/Lat.: 294916 Datum: AGD66
Locality:
Elevation: 465 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, Detrital sedimentary rock (unidentified)

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Rises
Relief: No Data
Slope Category: Very gently sloped
Aspect: 100 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Hypernatric Brown Sodosol Medium Very gravelly Clay-loamy Clayey Moderately deep
Mapping Unit: N/A
Principal Profile Form: Dy2.43
ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Solodic soil

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

Vegetation:

Low Strata - Shrub, 0.51-1m, Sparse. *Species includes - Aristida species, Eriachne species
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Acacia species, Eremophila mitchellii, Eucalyptus brownii
Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 50-90%, cobbly, 60-200mm, angular, Detrital sedimentary rock (unidentified)

Profile Morphology

A1	0 - 0.12 m	Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, angular, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A2c	0.12 - 0.18 m	Yellowish brown (10YR5/6-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 50-90%, coarse gravelly, 20-60mm, angular, dispersed, Detrital sedimentary rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2	0.18 - 0.58 m	Strong brown (7.5YR5/6-Moist); ; Silty medium heavy clay; Strong grade of structure, 10-20 mm, Prismatic; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Clear, Smooth change to -
C	0.58 - 0.63 m	; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 0.6);

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 - 0.12	6.9A		5.9B	2.7	0.28	0.14				
0.18 - 0.58	7.5A		3.6E	6.6	0.11	5		17I		29.41
			3.8J	7.4	0.2	4.1				24.12
0.58 -	8.4A									

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												
0.18 - 0.58												
0.58 -												

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										
0.18 - 0.58										
0.58 -										

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Laboratory Analyses Completed for this profile

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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