Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **45** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 18/07/90
Map Ref.: Sheet No. : 8057 GPS
Northing/Long.: 7749698 AMG zone: 55
Easting/Lat.: 384024 Datum: AGD66
Locality:
Elevation: 300 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Imperfectly drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Flat
Elem. Type: Plain
Slope: 1 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 90 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Bleached-Sodic Mesotrophic Grey Kandosol Thick Non-gravelly Loamy Clay-loamy Very deep
Mapping Unit: N/A
Principal Profile Form: Gn2.95

ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Great Soil Group: Grey earth

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Aristida species, Heteropogon contortus
Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus melanophloia, Eucalyptus erythrophloia
Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus crebra, Eucalyptus melanophloia, Eucalyptus erythrophloia

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.04); Common, fine (1-2mm) roots; Gradual, Smooth change to -
A12	0.2 - 0.45 m	Dark yellowish brown (10YR4/4-Moist); ; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.8 (Raupach, 0.3); Common, fine (1-2mm) roots; Gradual, Smooth
A2e	0.45 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.5); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.6 - 0.95 m	Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Clay loam, fine sandy; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.75); Gradual, Smooth change to -
B22	0.95 - 1.32 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam, fine sandy; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Wet; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1.15); Abrupt, Smooth change to -
B3	1.32 - 1.6 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y76, 10-20% , 0-5mm, Faint; Mottles, 10-20% ; Clay loam, fine sandy; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 8 (Raupach, 1.5);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.2	5.8A		2.1B	1	0.33	0.04				
0.2 - 0.45	5.8A									
0.45 - 0.6	6.1A									
0.6 - 0.95	6.8A		1.4B	1.9	0.07	0.79		8B		9.88
			1.6E	2.2	0.06	0.63		4.6I		17.17
			1.5J	2.1	0.1	0.7				7.88
										13.70
										8.75
										15.22
0.95 - 1.32	7.3A		1.9B	1.7	0.05	1.1		8B		13.75
			2.7E	2.1	0.04	0.83				10.38
1.32 - 1.6	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 - 0.2												
0.2 - 0.45												
0.45 - 0.6												
0.6 - 0.95												
0.95 - 1.32												
1.32 - 1.6												

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 - 0.2										
0.2 - 0.45										
0.45 - 0.6										
0.6 - 0.95										
0.95 - 1.32										
1.32 - 1.6										

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - 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