Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **134** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 04/09/90
Map Ref.: Sheet No. : 7857 GPS
Northing/Long.: 7770496 AMG zone: 55
Easting/Lat.: 290663 Datum: AGD66
Locality:
Elevation: 660 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Well 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: 0 degrees

Surface Soil Condition (dry): Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous-Endohypersodic Self-Mulching Black Vertosol Gravelly Medium fine Very fine Very deep

Mapping Unit: N/A
Principal Profile Form: Ug5.16

ASC Confidence:
No analytical data are available but confidence is fair.

Great Soil Group: Black earth

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

Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - Enteropogon species, Paspalum species, Panicum species Mid Strata - Tree, 1.01-3m, Isolated clumps. *Species includes - Melaleuca bracteata

Tall Strata - Tree, 6.01-12m, Mid-dense. *Species includes - Melaleuca bracteata

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm, rounded, Basalt

Profile Morphology

A1	0 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.15 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8.8 (Raupach, 0.3); Few, fine (1-2mm) roots; Clear, Smooth change to -
B22k	0.7 - 1.6 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 1.2); Few, fine (1-2mm) roots; Gradual, Smooth change to -
B23k	1.6 - 1.95 m	Dark grey (10YR4/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 1.8); Clear, Smooth change to -
B24k	1.95 - 2.2 m	Grey (10YR5/1-Moist); ; Heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moderately moist; Strong consistence; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 2.1);

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 - 0.15	8.2A		21B	34	0.61	0.88				
0.15 - 0.7	8.7A		10.4J	32.4	0.2	7.2		48.4I		14.88
0.7 - 1.6	9A		7.1B	42	0.52	18		60B		30.00
			5.4E	40	0.43	13				21.67
1.6 - 1.95	8.9A									
1.95 - 2.2	8.9A									

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 - 0.15												
0.15 - 0.7												
0.7 - 1.6												
1.6 - 1.95												
1.95 - 2.2												

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 - 0.15									
0.15 - 0.7									
0.7 - 1.6									
1.6 - 1.95									
1.95 - 2.2									

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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