Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD

Project Code: DLR Site ID: 145 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.: 06/09/90 Elevation: 460 metres Map Ref.: Sheet No.: 7960 GPS Rainfall: No Data Northing/Long.: 7906650 AMG zone: 55 Runoff: Very rapid 310144 Datum: AGD66 Well drained Easting/Lat.: Drainage:

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Undisturbed soil core, Siltstone

Land Form

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Lower-slopeRelief:No Data

Elem. Type: Hillslope Slope Category: Very gently sloped Slope: 2 % Aspect: 210 degrees

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEutrophic Mottled-Subnatric Brown Sodosol Medium Non-Principal Profile Form:Dy3.42

gravelly Silty Clayey Deep

ASC Confidence: Great Soil Group: Solodic soil

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, <0.25m, Very sparse. *Species includes - Bothriochloa decipiens, Aristida species

Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus crebra

Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.03 m Dark brown (10YR3/3-Moist); ; Silty loam; Strong grade of structure, 2-5 mm, Angular blocky;

Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth

change to -

A2c 0.03 - 0.13 m Brown (10YR4/3-Moist); ; Silty clay loam; Strong grade of structure, 10-20 mm, Angular blocky;

Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm)

roots; Abrupt, Tongued change to -

B21 0.13 - 0.3 m Brown (10YR5/3-Moist); Mottles, 10YR58, 20-50%, 5-15mm; Mottles, 20-50%; Silty medium

clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores,

Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Abrupt, Smooth change to -

B22 0.3 - 0.7 m Olive brown (2.5Y4/4-Moist); Mottles, 10YR58, 20-50%, 5-15mm; Mottles, 20-50%; Silty medium

clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores,

Dry; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct;, Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Abrupt, Smooth change to -

B3 0.7 - 1.1 m Brownish yellow (10YR6/6-Moist); Mottles, 7.5YR58, 20-50%, 0-5mm; Mottles, 20-50%; Strong

grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Siltstone, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5

(Raupach, 0.9); Abrupt, Smooth change to -

C 1.1 - 1.3 m ; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1.3);

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 145 Observation ID: 1 QLD Department of Primary Industries

Project Name: Project Code: Agency Name:

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 145 Observation ID: 1 **Project Name:**

Project Code: Agency Name: DLR Site ID: 145
QLD Department of Primary Industries

Laboratory Test Results:

Laboratory Test Results.										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na I	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou .	••9		Cmol (+				%
0.03 - 0.13	6A		1.1B	5.4	0.45	0.19				
0.13 - 0.3 0.3 - 0.7	7.2A 7.6A		0.6J	7	0.4	0.5		10.51		4.76
0.3 - 0.7	7.5A		0.03 0.18B	8.3	0.4	0.37		10.51		4.70
1.1 - 1.3	7.4A									
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K		Partic	cle Size	Analysis
m	%	%	mg/kg	%	%	%	Density Mg/m3	GV C	S ГЗ %	Silt Clay
0.03 - 0.13										
0.13 - 0.3										
0.3 - 0.7										
0.7 - 1.1 1.1 - 1.3										
1.1 - 1.5										
Depth	COLE		Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h

0.03 - 0.13 0.13 - 0.3 0.13 - 0.3 0.3 - 0.7 0.7 - 1.1 1.1 - 1.3

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD

Project Code: DLR Site ID: 145 Observation ID: 1

Agency Name: QLD Department of Primary Industries

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