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

Project Code: DLR Site ID: T504 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M.G. Cannon Locality:

Date Desc.: Elevation: 03/12/91 214 metres Map Ref.: Sheet No.: 8357 GPS Rainfall: No Data Northing/Long.: 7745198 AMG zone: 55 Runoff: Moderately rapid 500605 Datum: AGD66 Well drained Easting/Lat.: Drainage:

Geology

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

Geol. Ref.: Odr Substrate Material: Undisturbed soil core, 0.7 m deep,Granite

Land Form

Rel/Slope Class: Undulating plains <9m 3-10% Pattern Type: Rises Morph. Type: Mid-slope Relief: No Data Elem. Type: Slope Category: Gently inclined Hillslope Aspect: 220 degrees Slope: 5 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Eutrophic Red Chromosol Thick Non-gravelly SandyPrincipal Profile Form:Dr2.22

Clayey Moderately deep

ASC Confidence: Great Soil Group: Non-calcic brown

Analytical data are incomplete but reasonable confidence. soil

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. *Species includes - Bothriochloa pertusa, Heteropogon

contortus

Mid Strata - , , . *Species includes - None recorded

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

Dark brown (7.5YR3/3-Moist); Loamy sand; Massive grade of structure; Earthy fabric;

Eucalyptus

A11

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m

Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, medium (2-5mm) roots; Gradual, Smooth change to
A12 0.1 - 0.2 m

Brown (7.5YR4/4-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.15); Few, fine (1-2mm) roots; Gradual, Smooth change to -

A 0.2 - 0.32 m Reddish brown (5YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.25); Clear,

Smooth change to -

B1 0.32 - 0.46 m Red (2.5YR4/6-Moist); ; Sandy light medium clay; Moderate grade of structure, 5-10 mm,

Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded tabular, dispersed, Granite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.35); Clear, Smooth

change to -

B2 0.46 - 0.74 m Red (10R4/6-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular

blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence: 0-2%, medium gravelly, 6-20mm, rounded tabular, dispersed, Granite,

coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.6); Clear, Smooth change to -

0.74 - 0.86 m ; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granite,

coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.8);

Morphological Notes

Observation Notes

DLR 1010: OTHER GROUNDCOVER - FLANNELWEEDS.

Site Notes

С

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T504 Observation ID: 1 Project Name:

DLR Site ID: T504
QLD Department of Primary Industries

Project Code: Agency Name:

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Cations		Exchangeable Na Acidity		CEC		ECEC		ESP	
m		dS/m	Ca I	Иg	K	Na Acidity Cmol (+)/kg							%
0 - 0.1	6.37A	0.03A	3.1B 4.11J	1.7 1.29	1.7 0.37	0.9	1		5.51				16.55
0.1 - 0.2	6.74A	0.01A											
0.2 - 0.32	6.51A	0.02A											
0.32 - 0.46	7.04A	0.01A											
0.46 - 0.74	6.14A	0.01A	6.2B	3.6	1.3	0.3	8		13.9[)			2.73
			9.47J	4.43	0.11	0.0	5		15.2	l			2.50
													0.36
													0.33
0.74 - 0.86	6.76A	0.01A	-	4.8	0.82	0.3	-		9.91				3.84
			6.54J	2.77	0.13	0.0	5						0.51
Depth	CaCO3	Organic	Avail.	Total	Total		Total	Bulk	Pa	article	Size	Analysi	s
- op	0	C	P	P	N		K	Density	GV	cs	FS	-	Clay
m	%	%	mg/kg	%	%		%	Mg/m3			%		
0 - 0.1		0.8B		0.037	٥.0	3A	2.03A			41A	40	9	10
0.1 - 0.2		0.00		0.0017	. 0.0	0, (2.00/1			, ,		Ū	.0
0.2 - 0.32													
0.32 - 0.46													
0.46 - 0.74		0.3B		0.026	٥.0 ٩	2A	1.41A			18A	22	9	51
0.74 - 0.86		0.1B		0.020	. 0.0					42A	26	11	21
21. 1 0.00													
Depth	COLE	Gravimetric/Volumetric Water Contents K sat K unsat											
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3 mm/h mm/h											ı

^{0 - 0.1}

^{0 - 0.1} 0.1 - 0.2 0.2 - 0.32 0.32 - 0.46 0.46 - 0.74 0.74 - 0.86

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

Project Code: DLR Site ID: T504 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence
10B Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU DTPA - extractable copper, zinc, manganese and iron
12A1_FE DTPA - extractable copper, zinc, manganese and iron
12A1_MN DTPA - extractable copper, zinc, manganese and iron
12A1_ZN DTPA - extractable copper, zinc, manganese and iron

15A2_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for

soluble salts

15A2_K
15A2_MG
15A2_MG
15A2_NA
15D2_CEC
15F1_CA
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts

15F1_K
15F1_MG
15F1_NA
Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts

15F3 CEC by 0.01M silver-thiourea (AgTU)+
15N1 Exchangeable sodium percentage (ESP)
17A1 Total potassium - X-ray fluorescence
3A1 EC of 1:5 soil/water extract
4A1 pH of 1:5 soil/water suspension

Total organic carbon - high frequency induction furnace, volumetric

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A1 Total phosphorus - X-ray fluorescence
P10_CF_C Clay (%) - Coventry and Fett pipette method
P10_CF_CS Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z Silt (%) - Coventry and Fett pipette method