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

Project Code: DLR Site ID: 177 Observation ID: 1

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.:09/10/90Elevation:495 metresMap Ref.:Sheet No.: 7859 GPSRainfall:No DataNorthing/Long.:7880772 AMG zone: 55Runoff:Very rapid

Easting/Lat.: 278908 Datum: AGD66 Drainage: Imperfectly drained

Geology

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

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

rock (unidentified)

Land Form

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

Elem. Type: Hillslope Slope Category: Very gently sloped Slope: 2 % Aspect: 240 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A
Hypocalcic Subnatric Red Sodosol Medium Slightly gravelly Principal Profile Form: Dr3.23

Clay-loamy Clayey Shallow

ASC Confidence: Great Soil Group: Solodic soil

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, <0.25m, Isolated plants. *Species includes - Bothriochloa decipiens, Panicum

species

Mid Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus brownii, Bursaria incana

Tall Strata - Tree, 12.01-20m, Sparse. *Species includes - Eucalyptus brownii

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, rounded, Ferricrete

Profile Morphology

A1 0 - 0.09 m Dark brown (7.5YR3/4-Moist); ; Sandy clay loam (Heavy); Massive grade of structure; Earthy

fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, dispersed, Ferricrete, coarse fragments; , Calcareous, , ; ,

Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Abrupt, Smooth change to

-

A3 0.09 - 0.2 m Strong brown (7.5YR4/6-Moist); ; Sandy light clay; Massive grade of structure; Earthy fabric;

Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Loose consistence; 90-100%, coarse gravelly, 20-60mm, rounded, dispersed, Ferricrete, coarse fragments; , Calcareous, , ; ,

Gypseous, , ; Abrupt, Smooth change to -

B21t 0.2 - 0.45 m Yellowish red (5YR5/8-Moist); Mottles, 7.5YR68, 10-20%, 5-15mm, Faint; Mottles, 10-20%;

Medium heavy clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.3); Abrupt, Smooth change to -

0.45 - 0.9 m ; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.6);

Morphological Notes
Observation Notes

Site Notes

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Project Name: Project Code: Agency Name: DLR Site ID: 177
QLD Department of Primary Industries

Laboratory Test Results:

<u>Laborator</u>	1001111	Jourto.										
Depth	рН	1:5 EC		hangeable Mg	e Cations K	E Na	xchangeable Acidity	CEC		ECEC	E	SP
m		dS/m		J		Cmol (+)					%	, D
0 - 0.09	6.4A		7.1B	4.5	0.15	0.18						
0.2 - 0.45	8.3A		14.8J	12	0	2		29.2	l		6.	85
0.45 - 0.9	9A		12E	14	0.02	2.5		27B	1		9.	26
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS		Size FS	Analysis	Nov
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	гз %	Silt C	лау
0 - 0.09												
0.2 - 0.45												
0.45 - 0.9												
Depth	COLE		Gravimetric/Volumetric Water Contents						Κs	sat	K unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 I	Bar				
m				g	/g - m3/m	3			mn	n/h	mm/h	
0 - 0.09												
0.2 - 0.45												
0.45 - 0.9												

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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