Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **307** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M. DeCorte	**Locality:**	
Date Desc.:	04/07/91	**Elevation:**	260 metres
Map Ref.:	Sheet No. : 8257 GPS	**Rainfall:**	No Data
Northing/Long.:	7780102 AMG zone: 55	**Runoff:**	No runoff
Easting/Lat.:	448307 Datum: AGD66	**Drainage:**	Well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Undisturbed soil core, Dolerite

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Very gently sloped
Slope:	2 %	**Aspect:**	270 degrees

Surface Soil Condition (dry): Cracking, Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Haplic Epipedal Brown Vertosol Non-gravelly Medium fine Very fine Shallow

Mapping Unit: N/A
Principal Profile Form: Ug5.32

ASC Confidence:
All necessary analytical data are available.

Great Soil Group: No suitable

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Dichanthium sericeum, Heteropogon contortus, Ophiurous exaltatus Mid Strata - , , . *Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; 0-2%, medium gravelly, 6-20mm, angular, dispersed, Dolerite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.08 - 0.3 m	Dark brown (10YR3/3-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Dolerite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.3 - 0.4 m	; , Calcareous, , ; , Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.08	7.1A									
0.08 - 0.3	7.2A		31.4J	8.6	0.7	0.4		40.8I		0.98

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 - 0.08												
0.08 - 0.3												

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 - 0.08									
0.08 - 0.3									

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Laboratory Analyses Completed for this profile

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