

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 680                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	29/07/91	<b>Elevation:</b>	320 metres
<b>Map Ref.:</b>	Sheet No. : 8258    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7809411 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	454380    Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Undisturbed soil core, Granodiorite

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	210 degrees

**Surface Soil Condition (dry):** Hardsetting

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Eutrophic Yellow Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy3.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Heteropogon contortus, Aristida species  
Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia,  
Eucalyptus tessellaris

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

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, subrounded, Igneous rock (unidentified)

#### Profile Morphology

A11	0 - 0.12 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
A12	0.12 - 0.28 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.28 - 0.5 m	Yellowish brown (10YR5/6-Moist); Mottles, 2.5YR48, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 100-200 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B/C	0.5 - 0.7 m	Brownish yellow (10YR6/8-Moist); Substrate influence, 10YR44, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Few, very fine (0-1mm) roots; Clear, Smooth change to -
C	0.7 - 0.75 m	; Moderately moist; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.75);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.12	5.7A								
0.28 - 0.5	6A								
0.5 - 0.7	7.2A								

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension