

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 738                      **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>	16/08/91	<b>Elevation:</b>	360 metres
<b>Map Ref.:</b>	Sheet No. : 8158    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7810256 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	428862    Datum: AGD66	<b>Drainage:</b>	No Data

#### 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, Granite

#### Land Form

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	4 %	<b>Aspect:</b>	210 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol Thin Slightly gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil
No analytical data are available but confidence is fair.		

**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 ewartiana, Phynchelytrum repens,  
Heteropogon contortus    Mid Strata - , , . \*Species includes - Eucalyptus crebra, Eucalyptus papuana, Acacia bidwillii

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** 2-10%, cobbly, 60-200mm, angular, Granite

#### Profile Morphology

A	0 - 0.08 m	Dark brown (7.5YR3/2-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
B1	0.08 - 0.18 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam, coarse sandy; 20-50 mm, Prismatic; 5-10 mm; Smooth-ped fabric; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Clear change to -
B21	0.18 - 0.45 m	Reddish brown (5YR4/4-Moist); ; Medium heavy clay; 20-50 mm, Prismatic; 5-10 mm; Smooth-ped fabric; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.3); Gradual change to -
B/C	0.45 - 0.8 m	; Medium heavy clay; 20-50 mm, Prismatic; 5-10 mm; Smooth-ped fabric; Dry; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.6); Gradual change to -
C	0.8 - 1.2 m	; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 1);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

0.18 - 0.45	7.7A
0.8 - 1.2	8.3A

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS	Silt Clay

0.18 - 0.45  
0.8 - 1.2

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 - m <sup>3</sup> /m <sup>3</sup>							mm/h	mm/h

0.18 - 0.45  
0.8 - 1.2

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension