

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 623 **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>	26/05/91	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8259-3 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7846809 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	448375 Datum: AGD66	<b>Drainage:</b>	Very poorly 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, Sandstone

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Fan	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	140 degrees

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Eutrophic Yellow Chromosol Very thick Non-gravelly Loamy Clayey Deep	<b>Principal Profile Form:</b>	Dy3.31
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Lateritic podzolic soil
No analytical data are available but confidence is fair.		

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

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus brownii

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.15 m	Dark reddish grey (5YR4/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.05);
A12	0.15 - 0.3 m	Reddish grey (5YR5/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.3);
A2j	0.3 - 0.6 m	Reddish brown (5YR5/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.6);
B21	0.6 - 0.8 m	Reddish yellow (7.5YR6/6-Moist); Substrate influence, 10R48, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions; , Calcareous, , , , Gypseous, , , ;
B22	0.8 - 1.1 m	Red (10R4/6-Moist); Substrate influence, 7.5YR6/4, 20-50% , 0-5mm, Prominent; Substrate influence, 20-50% ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 0.9);
BC	1.1 - 1.3 m	Very pale brown (10YR7/4-Moist); Substrate influence, 10YR6/8, 10-20% , 0-5mm, Distinct; Substrate influence, 10-20% ; Fine sandy light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 1.2);
C	1.3 - 1.35 m	; , Calcareous, , , , Gypseous, , , ; Field pH 5.5 (Raupach, 1.35);

#### Morphological Notes

#### Observation Notes

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Laboratory Test Results:

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

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
								%	

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

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Laboratory Analyses Completed for this profile