

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1952 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Bright, J (Mitch)	<b>Locality:</b>	
<b>Date Desc.:</b>	22/09/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7858 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7819116 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	272635 Datum: AGD66	<b>Drainage:</b>	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, No Data

#### Land Form

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

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Sodic Supracalcic Red Chromosol Thin Non-gravelly Clay-loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dr3.13
<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, Very sparse. \*Species includes - Bothriochloa species, Aristida species  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Bursaria incana, Erythroxylon australe  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus persistens

**Surface Coarse Fragments:** 10-20%, medium gravelly, 6-20mm, subrounded, Ironstone

#### Profile Morphology

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Field pH 6.5 (Raupach, 0.1); Clear change to -
B21	0.1 - 0.3 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR54, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.25); Gradual change to -
B22	0.3 - 0.55 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Gradual change to -
B23	0.55 - 0.7 m	Yellowish brown (10YR5/4-Moist); Mottles, 7.5YR46, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Sandy light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Slightly calcareous; Field pH 9 (Raupach, 0.65); Gradual change to -
B24	0.7 - 1 m	Yellowish red (5YR4/6-Moist); ; Light medium clay; Moderately moist; Firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.8);

#### 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 Cmol (+)/kg	Acidity			%		
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile