

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 2044                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	Barry, Earl	<b>Locality:</b>	
<b>Date Desc.:</b>	24/06/93	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 7958    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7808750 AMG zone: 55	<b>Runoff:</b>	Moderately rapid
<b>Easting/Lat.:</b>	333085    Datum: AGD66	<b>Drainage:</b>	Well 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	No Data	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	3 %	<b>Aspect:</b>	No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Ferrosol Thin Slightly gravelly Clayey Clayey Moderately deep	<b>Principal Profile Form:</b>	Uf6.31
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Euchrozem
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, 0.51-1m, Sparse. \*Species includes - Dichanthium species  
Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eucalyptus orgadophylla  
Tall Strata - Tree, 12.01-20m, Very sparse. \*Species includes - Eucalyptus orgadophylla, Eucalyptus papuana

**Surface Coarse Fragments:** 2-10%, stony, 200-600mm, subrounded, Basalt

#### Profile Morphology

A11	0 - 0.09 m	Very dark brown (10YR2/2-Moist); ; Light clay; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), ; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.05); Clear change to -
B1	0.09 - 0.21 m	Dark greyish brown (10YR4/2-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), ; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.15); Gradual change to -
B21	0.21 - 0.6 m	Yellowish red (5YR4/6-Moist); Mottles, 10YR58, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; Few (2 - 10 %), Ferromanganiferous, Coarse (6 - 20 mm), ; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.5); Clear change to -
BC	0.6 - 0.9 m	Light olive brown (2.5Y5/4-Moist); ; Light clay; Single grain grade of structure; Dry; Very weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), ; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.7); Field pH 8 (Raupach, 0.9);
BC	0.9 - 1 m	Dark greyish brown (2.5Y4/2-Moist); ; Single grain grade of structure; Dry; Very weak consistence; , 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
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