

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1991 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> Rogers, Gary	<b>Locality:</b>
<b>Date Desc.:</b> 18/10/93	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 7959 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7877560 AMG zone: 55	<b>Runoff:</b> Rapid
<b>Easting/Lat.:</b> 331952 Datum: AGD66	<b>Drainage:</b> Moderately 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> Undisturbed soil core, No Data

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Crest	<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
Haplic Eutrophic Red Dermosol Thin Moderately gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b> Gn3.13
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> No suitable group

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, <0.25m, Very sparse. \*Species includes - Unknown species, Unknown species, Unknown species  
Mid Strata - , , , . \*Species includes - None recorded

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus melanophloia, Eucalyptus papuana

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, subangular, Rhyolite

#### Profile Morphology

A1	0 - 0.09 m	Dark reddish brown (2.5YR3/3-Moist); ; Clay loam; Moderate grade of structure, 2-5 mm, Subangular blocky; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.04); Clear change to -
B1	0.09 - 0.22 m	Dark red (2.5YR3/6-Moist); Mottles, 2.5Y54, 2-10% , 0-5mm, Faint; Mottles, 2-10% ; Clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.15); Clear change to -
B21	0.22 - 0.47 m	Dark red (2.5YR3/6-Moist); Mottles, 2.5Y56, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.3); Gradual change to -
B22	0.47 - 0.67 m	Yellowish red (5YR4/6-Moist); Mottles, 2.5Y44, 2-10% , 5-15mm, Prominent; Mottles, 2-10% ; Light medium clay (Heavy); Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Gradual change to -
B23	0.67 - 0.9 m	Dark yellowish brown (10YR4/6-Moist); ; Silty light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 0.8); Gradual change to -
B24	0.9 - 1.1 m	Light olive brown (2.5Y5/6-Moist); ; Silty clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Dry; Strong consistence; 2-10%, fine gravelly, 2-6mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 1);

#### Morphological Notes

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**Site 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	CS	Size FS	Analysis 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