

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1892 **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> 20/09/93	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 7858 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7841692 AMG zone: 55	<b>Runoff:</b> No runoff
<b>Easting/Lat.:</b> 269723 Datum: AGD66	<b>Drainage:</b> Imperfectly 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 plains <9m 1-3%	<b>Pattern Type:</b> Plateau
<b>Morph. Type:</b> Simple-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):** Self-mulching, Cracking

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Haplic Self-Mulching Black Vertosol	<b>Principal Profile Form:</b> Ug5
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Black earth

Analytical data are incomplete but reasonable confidence.

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

#### Vegetation:

Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Dichanthium species  
 Mid Strata - Tree, 1.01-3m, Very sparse. \*Species includes - Eucalyptus species, Grewia scabrella  
 Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Eucalyptus erythrophloia,  
 Eucalyptus crebra

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

#### Profile Morphology

A1	0 - 0.05 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.03); Clear change to -
B21	0.05 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Gradual change to -
B22	0.3 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 10-20%, fine gravelly, 2-6mm, rounded, Metamorphic rock (unidentified), coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.4); Gradual change to -
BC	0.5 - 0.65 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.6);
C	0.65 - 0.85 m	; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 0.8);

#### 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