

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 925 **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> 24/04/92	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 8156 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7712148 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 434617 Datum: AGD66	<b>Drainage:</b> Imperfectly drained

#### Geology

<b>Exposure Type:</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, Limestone

#### Land Form

<b>Rel/Slope Class:</b> Level plain <9m <1%	<b>Pattern Type:</b> Plain
<b>Morph. Type:</b> Flat	<b>Relief:</b> No Data
<b>Elem. Type:</b> Plain	<b>Slope Category:</b> Level
<b>Slope:</b> %	<b>Aspect:</b> No Data

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Epicalcareous Self-Mulching Black Vertosol Non-gravelly	<b>Principal Profile Form:</b> Ug5.11
Medium fine Very fine Deep	
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Black earth

No analytical data are available but confidence is fair.

**Site Disturbance:** Extensive clearing, for example poisoning, ringbarking

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Mid-dense. \*Species includes - Dichanthium species, Eulalia aurea (ex fulva),  
Aristida species Mid Strata - , , . \*Species includes - None recorded

Tall Strata - Tree, 1.01-3m, Sparse. \*Species includes - Terminalia oblongata, Lysiphillum carronii

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

A11	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Light medium clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 7.5 (Raupach, 0.03);
A12	0.03 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9.9 (Raupach, 0.2);
B21k	0.3 - 0.8 m	Very dark grey (2.5Y3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Field pH 9 (Raupach, 0.5);
B22	0.8 - 1.3 m	Brown (10YR4/3-Moist); Mottles, 2.5Y32, 20-50% , 5-15mm, Prominent; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 9 (Raupach, 0.9);
C	1.3 - 1.5 m	; , Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 1.4);

#### Morphological Notes

#### Observation Notes

#### Site 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