

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 928 **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>	7709740 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	433158 Datum: AGD66	<b>Drainage:</b>	No Data

#### 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>	No Data

#### 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>	No Data
<b>Slope:</b>	1 %	<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 Grey Vertosol Gravelly Medium fine Very fine Very deep	<b>Principal Profile Form:</b>	Ug5.23
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Grey clay

No analytical data are available but confidence is fair.

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

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Terminalia oblongata  
Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Acacia cambagei

**Surface Coarse Fragments:** 10-20%, medium gravelly, 6-20mm, rounded, Quartz

#### Profile Morphology

A11	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.02);
A12	0.05 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.2);
B21	0.25 - 1.1 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 0.5);
B22	1.1 - 1.5 m	Dark brown (10YR3/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.4);
B23	1.5 - 1.7 m	Brown (7.5YR4/3-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Highly calcareous; Field pH 8.5 (Raupach, 1.6);

#### 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	Acidity		%
						Cmol (+)/kg			
0 - 0.05	8.3A								
0.25 - 1.1	9.3A								
1.5 - 1.7	8.7A								

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension