

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 698 **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>	01/08/91	<b>Elevation:</b>	300 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7819244 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	441496 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>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	0 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Calcic Subnatric Brown Sodosol Thin Non-gravelly Loamy Clay-loamy Deep	<b>Principal Profile Form:</b>	Db1.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Solodic soil

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Bothriochloa ewartiana, Chrysopogon fallax, Eragrostis species Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Eremophila mitchellii, Eucalyptus brownii

Tall Strata - Tree, 3.01-6m, Isolated plants. \*Species includes - Eucalyptus brownii

**Surface Coarse Fragments:** 0-2%, medium gravelly, 6-20mm, rounded, Sandstone

#### Profile Morphology

A1j	0 - 0.05 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam (Light); Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5
B1	0.05 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , , ;
B21	0.15 - 0.3 m	Dark brown (10YR3/3-Moist); ; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 9 (Raupach, 0.3);
B22k	0.3 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.6);
B23	0.7 - 1 m	Dark greyish brown (10YR4/2-Moist); ; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Moderately calcareous;
C	1 - 1.1 m	; Massive grade of structure; Earthy fabric; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 8 (Raupach, 1.1);

#### 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		%
0 - 0.15	6.5A								
0.15 - 0.3	8.9A		24.5J	6.8	0.2	4.7		32.5I	14.46
0.7 - 1	8.8A		18.5J	3.8	0.2	0.5		22I	2.27

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**Laboratory Analyses Completed for this profile**

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension