

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 730 **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>	14/08/91	<b>Elevation:</b>	280 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7810193 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	414491 Datum: AGD66	<b>Drainage:</b>	No Data

**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>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	90 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	Mapping Unit:	N/A
Basic Regolithic Bleached-Orthic Tenosol Thin Non-gravelly	<b>Principal Profile Form:</b>	Uc2.22
Sandy Loamy Moderately deep		
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Earthy sand

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Mid-dense. \*Species includes - Heteropogon contortus, Setaria species, Phynchelytrum repens Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus tessellaris, Melaleuca

Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus brownii, Eucalyptus crebra,

Eucalyptus tessellaris

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

**Profile Morphology**

A11	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Fine sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Gradual change to -
A21	0.08 - 0.3 m	Brown (10YR4/3-Moist); ; Fine sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Gradual change to -
A22e	0.3 - 0.42 m	Brown (10YR5/3-Moist); ; Fine sand; Massive grade of structure; Sandy (grains prominent) fabric; Loose consistence; , Calcareous, , , Gypseous, , ; Abrupt change to -
B21	0.42 - 0.7 m	Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 9.5 (Raupach, 0.6); Gradual change to -
B22	0.7 - 0.9 m	Brown (10YR4/3-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy loam; Massive grade of structure; Earthy fabric; Firm consistence; , Calcareous, , , Gypseous, , ; Field pH 9.5 (Raupach, 0.9);

**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			%
0 - 0.08	6.6A		1.8B	1	0.43	0.07			
0.42 - 0.7	8.9A		1.9B	2.5	0.19	5.6			
0.7 - 0.9	9A								

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension