

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 242 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	07/06/91	<b>Elevation:</b>	340 metres
<b>Map Ref.:</b>	Sheet No. : 8257 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7753099 AMG zone: 55	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	497850 Datum: AGD66	<b>Drainage:</b>	Well 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>	Existing vertical exposure, Granulite

#### Land Form

<b>Rel/Slope Class:</b>	Steep hills 90-300m 32-56%	<b>Pattern Type:</b>	Hills
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Moderately inclined
<b>Slope:</b>	20 %	<b>Aspect:</b>	120 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Brown Chromosol Thick Moderately gravelly Loamy Clay-loamy Moderately deep	<b>Principal Profile Form:</b>	Db1.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Brown podzolic soil
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Very sparse. \*Species includes - Heteropogon contortus, Bothriochloa pertusa

Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eucalyptus erythrophloia, Acacia bidwillii

Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

**Surface Coarse Fragments:** 20-50%, stony, 200-600mm, angular, Granulite

#### Profile Morphology

A1	0 - 0.18 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A2	0.18 - 0.3 m	Brown (10YR4/3-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Granulite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B21	0.3 - 0.6 m	Dark yellowish brown (10YR4/4-Moist); ; Sandy clay loam (Heavy); Strong grade of structure, 20-50 mm, Prismatic; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.6); Clear, Smooth change to -
C	0.6 - 0.7 m	; , Calcareous, , ; , Gypseous, , ;

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.18	6.4A		7.1B	2.5	0.39	0.07				
0.18 - 0.3	6.7A		11.9J	4.9	0.2	0.1		14I		0.71
0.3 - 0.6	6.2A		12B	3.7	0.08	0.23				

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 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
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