

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 49                      **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>	19/07/90	<b>Elevation:</b>	470 metres
<b>Map Ref.:</b>	Sheet No. : 7956    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7719555 AMG zone: 55	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	328783    Datum: AGD66	<b>Drainage:</b>	Well drained

**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>	Auger boring, Sandstone

**Land Form**

<b>Rel/Slope Class:</b>	Steep low hills 30-90m 32-56%	<b>Pattern Type:</b>	Low 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>	17 %	<b>Aspect:</b>	60 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Submelacic Paralithic Leptic Tenosol Thin Non-gravelly Sandy Sandy Shallow		<b>Principal Profile Form:</b>	Uc1.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Lithosol

All necessary analytical data are available.

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

**Vegetation:**    Low Strata - Tussock grass, <0.25m, Isolated plants. \*Species includes - Eriachne species, Aristida species, Digitaria species                      Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Acacia species

Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Acacia shirleyi, Eucalyptus peltata

**Surface Coarse Fragments:** 90-100%, cobbly, 60-200mm, angular, Sandstone

**Profile Morphology**

A1	0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Loose consistence; 20-50%, coarse gravelly, 20-60mm, subrounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 4.5 (Raupach, 0.04); Clear, Smooth change to -
A3	0.08 - 0.22 m	Dark yellowish brown (10YR3/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, subrounded, dispersed, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 4 (Raupach, 0.2); Clear, Irregular change to -
C	0.22 - 0.27 m	; , Calcareous, , , , Gypseous, , ;

**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 - 0.08	4.6A		0.25B	0.13	0.08	0.05				
0.08 - 0.22	4.6A		0.4J	0.1	0.1	0.2		2.71		7.41

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08												
0.08 - 0.22												

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	
0 - 0.08												
0.08 - 0.22												

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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
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