

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 40 **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>	17/07/90	<b>Elevation:</b>	342 metres
<b>Map Ref.:</b>	Sheet No. : 8057 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7782914 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	385685 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>	Undisturbed soil core, Ferricrete

#### 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>	175 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Eutrophic Subnatric Red Sodosol Medium Non-gravelly Sandy Clay-loamy Shallow	<b>Principal Profile Form:</b>	Dr2.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Red podzolic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Aristida species, Chrysopogon fallax  
Mid Strata - Shrub, 1.01-3m, Isolated plants. \*Species includes - Acacia species  
Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Acacia shirleyi, Eucalyptus papuana, Eucalyptus crebra

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

#### Profile Morphology

A1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.04); Few, fine (1-2mm) roots; Abrupt, Smooth change to -
A2	0.1 - 0.25 m	Brown (10YR4/3-Moist); ; Sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Few, fine (1-2mm) roots; Clear, Smooth change to -
B21c	0.25 - 0.45 m	Reddish brown (5YR5/4-Moist); ; Sandy clay loam (Heavy); Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , , Gypseous, , ; , Continuous; Field pH 6.5 (Raupach, 0.3); Few, fine (1-2mm) roots; Clear, Irregular change to -
C	0.45 - 0.7 m	Dark red (2.5YR3/6-Moist); Mottles, 2.5Y74, 10-20% , 0-5mm, Prominent; Mottles, 10-20% ; Sandy clay loam; Moderately moist; Weak consistence; , Calcareous, , , Gypseous, , ; Ferricrete, Uncemented, Platy; Field pH 6 (Raupach, 0.5); Few, very fine (0-1mm) roots;

#### Morphological Notes

#### Observation Notes

#### Site 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 - 0.1	6.8A		2.2B	0.69	0.16	0.03				
0.1 - 0.25	6.9A									
0.25 - 0.45	6.5A		1.3J	0.4	0.2	0.2		2.4I		8.33
0.45 - 0.7	6.2A		1.4B	0.74	0.32	0.04				

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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