

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 110                      **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>	21/08/90	<b>Elevation:</b>	740 metres
<b>Map Ref.:</b>	Sheet No. : 8159    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7886942 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	406059    Datum: AGD66	<b>Drainage:</b>	Imperfectly 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>	No Data

## Land Form

<b>Rel/Slope Class:</b>	Rolling low hills 30-90m 10-	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	3 %	<b>Aspect:</b>	200 degrees

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

**Erosion:**

## Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Mottled Dystrophic Yellow Chromosol Medium Non-gravelly Sandy Clayey Deep	<b>Principal Profile Form:</b>	Dy2.41
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Yellow podzolic soil

No analytical data are available but confidence is fair.

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

<b><u>Vegetation:</u></b>	Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Chrysopogon fallax, Eragrostis species,
Themeda	triandra                      Mid Strata - Tree, 3.01-6m, Isolated plants. *Species includes - Acacia species
Eucalyptus	Tall Strata - Tree, 12.01-20m, Mid-dense. *Species includes - Eucalyptus citriodora, Eucalyptus acmenoides, terminalis

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

## Profile Morphology

A1	0 - 0.03 m	Dark greyish brown (10YR4/2-Moist); ; Loamy coarse sand; Single grain grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular tabular, dispersed, Rhyolite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Many, fine (1-2mm) roots; Abrupt, Smooth change to -
A2c	0.03 - 0.18 m	Greyish brown (10YR5/2-Moist); ; Loamy coarse sand; Single grain grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, medium gravelly, 6-20mm, angular tabular, dispersed, Rhyolite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Abrupt, Smooth change to -
B1	0.18 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Sandy clay loam (Heavy); Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
B2	0.25 - 0.45 m	Brownish yellow (10YR6/6-Moist); Mottles, 5YR48, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Light medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.3); Gradual, Smooth change to -
B3	0.45 - 1.2 m	Light brownish grey (2.5Y6/2-Moist); Substrate influence, 10R48, 20-50% , 15-30mm, Prominent; Substrate influence, 5YR68, 20-50% ; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.9);

### 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				%
0.03 - 0.18	5.2A		0.52B	0.64	0.26	0.06				
0.25 - 0.45	5.4A		0.4J	0.8	0.2	0.2		5.1l		3.92
0.45 - 1.2	5.3A		0.36B	1	0.18	0.11				

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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