

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 74 **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> 26/07/90	<b>Elevation:</b> 330 metres
<b>Map Ref.:</b> Sheet No. : 8057 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7742012 AMG zone: 55	<b>Runoff:</b> Very slow
<b>Easting/Lat.:</b> 363926 Datum: AGD66	<b>Drainage:</b> Moderately 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> No Data

#### Land Form

<b>Rel/Slope Class:</b> Level plain <9m <1%	<b>Pattern Type:</b> Alluvial plain
<b>Morph. Type:</b> Flat	<b>Relief:</b> No Data
<b>Elem. Type:</b> Plain	<b>Slope Category:</b> Level
<b>Slope:</b> 2 %	<b>Aspect:</b> 90 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Mottled-Sodic Eutrophic Brown Dermosol Medium Non-gravelly Loamy Clay-loamy Deep	<b>Principal Profile Form:</b> Gn3.82
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> No suitable

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 - Heteropogon contortus, Aristida species  
Mid Strata - Tree, 1.01-3m, Isolated plants. \*Species includes - Eucalyptus platyphylla, Eucalyptus brownii,

Acacia

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

Eucalyptus

papuana

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

#### Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam (Heavy); Weak grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Many, medium (2-5mm) roots; Clear, Smooth change to -
A2j	0.1 - 0.25 m	Strong brown (7.5YR5/6-Moist); Mottles, 7.5YR68, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Silty loam; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , Many, fine (1-2mm) roots; Abrupt, Tongued change to -
B21	0.25 - 0.95 m	Strong brown (7.5YR5/6-Moist); Mottles, 7.5YR68, 20-50% , 5-15mm, Distinct; Mottles, 20-50% ; Silty clay loam; Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.6); Common, fine (1-2mm) roots; Abrupt, Smooth change to -
2B21	0.95 - 1.15 m	Yellowish brown (10YR5/6-Moist); Mottles, 10YR58, 10-20% , 0-5mm, Distinct; Mottles, 10YR53, 10-20% ; Sandy clay loam (Heavy); Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Abrupt, Smooth change to -
2B22	1.15 - 1.3 m	Brown (10YR5/3-Moist); Mottles, 10YR58, 10-20% , 0-5mm, Distinct; Mottles, 10YR56, 10-20% ; Sandy clay loam (Heavy); Strong grade of structure, 50-100 mm, Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.5 (Raupach, 1.3);

#### 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	6.4A		2.9B	1.9	2	0.09				
0.25 - 0.95	8A		4.9J	3.2	0.5	0.6		10.8I		5.56
1.15 - 1.3	8.8A		5.1B	3.5	0.27	1.9		12B		15.83
			5.4E	4	0.27	1.8				15.00

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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