

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1371 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> Rogers, Gary	<b>Locality:</b>
<b>Date Desc.:</b> 20/08/92	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 7957 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7747139 AMG zone: 55	<b>Runoff:</b> Moderately rapid
<b>Easting/Lat.:</b> 337328 Datum: AGD66	<b>Drainage:</b> Imperfectly 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, No Data

#### Land Form

<b>Rel/Slope Class:</b> Gently undulating rises 9-30m 1-3%	<b>Pattern Type:</b> Rises
<b>Morph. Type:</b> Crest	<b>Relief:</b> No Data
<b>Elem. Type:</b> Hillcrest	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 3 %	<b>Aspect:</b> No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Sodic Eutrophic Grey Chromosol Medium Non-gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b> Dy3.33
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Solodic 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, Sparse. \*Species includes - Aristida species, Chrysopogon fallax  
Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eremophila mitchellii, Eucalyptus crebra,

Eucalyptus brownii

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus brownii, Eucalyptus crebra

#### Surface Coarse Fragments:

#### Profile Morphology

A1	0 - 0.08 m	Dark brown (10YR3/3-Moist); ; Sandy loam; Weak grade of structure, 5-10 mm, Platy; Rough-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.04); Clear change to -
A2j	0.08 - 0.2 m	Brown (10YR5/3-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; 10-20%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.15); Abrupt change to -
B21	0.2 - 0.35 m	Brown (10YR4/3-Moist); ; Sandy medium clay; Moderate grade of structure, 50-100 mm, Columnar; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.3); Gradual change to -
B22	0.35 - 0.55 m	Greyish brown (2.5Y5/2-Moist); Mottles, 10YR4/6, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.4); Gradual change to -
B23	0.55 - 0.9 m	Greyish brown (2.5Y5/3-Moist); Mottles, 2.5Y5/6, 2-10% , 0-5mm, Distinct; Mottles, 2-10% ; Sandy light medium clay (Heavy); Massive grade of structure; Sandy (grains prominent) fabric; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 - 6 mm), Soft segregations; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.8);

#### Morphological Notes

#### Observation Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC Ca Mg	Exchangeable Cations K	Na Exchangeable Acidity	CCEC	ECEC	ESP %
m		dS/m		Cmol (+)/kg			
0 - 0.08	5.9A		1.7B	1.5	0.32	0.19	
0.2 - 0.35	7A						
0.55 - 0.9	9.4A						

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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
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension