

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2309 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b> Barry, Earl	<b>Locality:</b>
<b>Date Desc.:</b> 11/05/94	<b>Elevation:</b> No Data
<b>Map Ref.:</b> Sheet No. : 8060 GPS	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 7902462 AMG zone: 55	<b>Runoff:</b> Rapid
<b>Easting/Lat.:</b> 362494 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> Gently undulating plains <9m 1-3%	<b>Pattern Type:</b> Plain
<b>Morph. Type:</b> Lower-slope	<b>Relief:</b> No Data
<b>Elem. Type:</b> Plain	<b>Slope Category:</b> Very gently sloped
<b>Slope:</b> 2 %	<b>Aspect:</b> No Data

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b> N/A
Hypercalcic Mottled-Subnatric Brown Sodosol Medium Non-gravelly Clay-loamy Clayey Deep	<b>Principal Profile Form:</b> Db1.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b> Solodic soil

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Bothriochloa decipiens, Aristida species, Chrysopogon

fallaxMid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Atalaya hemiglauc

Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, subangular, Metamorphic rock (unidentified)

#### Profile Morphology

A11	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Clear change to -
A2e	0.15 - 0.29 m	Brown (10YR4/3-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; 2-10%, fine gravelly, 2-6mm, subangular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.2); Abrupt change to -
B21	0.29 - 0.5 m	Olive brown (2.5Y4/4-Moist); Mottles, 10YR56, 0-2% , 0-5mm, Distinct; Mottles, 0-2% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; , Calcareous, , , , Gypseous, , , Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach, 0.35); Gradual change to -
B22k	0.5 - 1.1 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR46, 2-10% , 5-15mm, Distinct; Mottles, 2-10% ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9 (Raupach, 0.7); Gradual change to -
B23	1.1 - 1.4 m	Strong brown (7.5YR4/6-Moist); Mottles, 10YR63, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ; Sandy medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 1.3);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations		Exchangeable Acidity		CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na			%
						Cmol (+)/kg			

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

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
					g/g - m3/m3				mm/h

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Laboratory Analyses Completed for this profile