

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 102                      **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>	10/08/90	<b>Elevation:</b>	200 metres
<b>Map Ref.:</b>	Sheet No. : 8255    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7648786 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	486170    Datum: AGD66	<b>Drainage:</b>	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>	Undisturbed soil core, Gabbro

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Crest	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillcrest	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	270 degrees

**Surface Soil Condition (dry):** Surface crust, Cracking

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Vertic Paralithic Supracalcic Calcarosol Non-gravelly Clayey Clayey Moderately deep	<b>Principal Profile Form:</b>	Ug5.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Brown clay

No analytical data are available but confidence is fair.

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, <0.25m, Very sparse. \*Species includes - Heteropogon contortus, Bothriochloa decipiens

Mid Strata - Tree, 1.01-3m, Isolated clumps. \*Species includes - Eucalyptus erythrophloia

Tall Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus erythrophloia

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

#### Profile Morphology

A1	0 - 0.05 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Strong grade of structure, <2 mm, Granular; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Soil matrix is Very highly calcareous; Field pH 9 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -
B21k	0.05 - 0.18 m	Brown (7.5YR4/2-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Very highly calcareous; Many, fine (1-2mm) roots; Clear, Smooth change to -
B/C	0.18 - 0.65 m	Strong brown (7.5YR5/6-Moist); ; Clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very weak consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , , ; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
C	0.65 - 0.8 m	; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.8);

#### 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 - 0.05	8.5A		52B	2.5	0.25	0.13		44.3I		0.29
0.18 - 0.65	8.6A		38.3J	2.2	0.2	0.1				0.23
0.65 - 0.8	8.8A		46B	4	0.09	0.4				

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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
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