

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 592 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M.G. Cannon	<b>Locality:</b>	
<b>Date Desc.:</b>	23/05/91	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 8158-1 GPS	<b>Rainfall:</b>	447
<b>Northing/Long.:</b>	7831860 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	435015 Datum: AGD66	<b>Drainage:</b>	Moderately well 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, Gabbro

#### Land Form

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

**Surface Soil Condition (dry):** Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Endocalcareous Self-Mulching Grey Vertosol Slightly gravelly	<b>Mapping Unit:</b>	N/A
		<b>Principal Profile Form:</b>	Ug5.22

<b>ASC Confidence:</b>	Analytical data are incomplete but reasonable confidence.	<b>Great Soil Group:</b>	Grey clay
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**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - , , . \*Species includes - None recorded  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - Tree, 12.01-20m, Isolated plants. \*Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** 2-10%, coarse gravelly, 20-60mm, rounded, Substrate material

#### Profile Morphology

A	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); ; Medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moist; Weak consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear change to -
B1	0.1 - 0.18 m	Brown (7.5YR4/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moist; Very firm consistence; ; Calcareous, , ; , Gypseous, , ; Few, fine (1-2mm) roots; Clear change
B21	0.18 - 0.45 m	Brown (7.5YR4/2-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; ; Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Few, fine (1-2mm) roots; Diffuse change to -
B22k	0.45 - 1.05 m	Brown (7.5YR4/2-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Gabbro, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Concretions; ; Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.9); Few, fine (1-2mm) roots; Clear change to -
BC	1.05 - 1.15 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; ; Calcareous, , ; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 1.1); Gradual change to -
C	1.15 - 1.4 m	; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; ; Calcareous, , ; , Gypseous, , ; Field pH 9 (Raupach, 1.4);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

4A1                      pH of 1:5 soil/water suspension