

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 235                      **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>	06/06/91	<b>Elevation:</b>	240 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7768700 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	478497    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, Granodiorite

#### 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>	Very gently sloped
<b>Slope:</b>	2 %	<b>Aspect:</b>	110 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Red Chromosol Thin Slightly gravelly Sandy Clayey Shallow	<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Non-calcic brown soil
All necessary analytical data are available.		

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

**Vegetation:** Low Strata - Tussock grass, <0.25m, Mid-dense. \*Species includes - Bothriochloa pertusa  
Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Eucalyptus erythrophloia  
Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus crebra,

Eucalyptus papuana

**Surface Coarse Fragments:** 2-10%, fine gravelly, 2-6mm, angular, Granodiorite

#### Profile Morphology

A1	0 - 0.09 m	Dark brown (10YR3/3-Moist); ; Loamy coarse sand; Moderate grade of structure, 5-10 mm, Polyhedral; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
B1	0.09 - 0.18 m	Reddish brown (5YR4/3-Moist); ; Coarse sandy clay loam; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , , , Gypseous, , , ; Few, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.18 - 0.4 m	Dark red (2.5YR3/6-Moist); Substrate influence, 7.5YR6/8, 0-2% , 5-15mm, Prominent; Substrate influence, 0-2% ; Light clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Common (1-5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, faint; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B/C	0.4 - 0.55 m	Reddish brown (5YR4/4-Moist); Substrate influence, 7.5YR5/8, 20-50% , 5-15mm, Prominent; Substrate influence, 20-50% ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , ; Clear, Smooth change to -
C	0.55 - 0.6 m	; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

Depth	pH	1:5 EC Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
m		dS/m							
0 - 0.09	6.6A								
0.18 - 0.4	6.9A	9.1J	4.3	0.2	0.1		15.5I		0.65
0.55 - 0.6	7.6A								

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**Laboratory Analyses Completed for this profile**

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