

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 224                      **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>	03/06/91	<b>Elevation:</b>	250 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7783503 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	468450    Datum: AGD66	<b>Drainage:</b>	No Data

**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>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	0 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 Gravelly Sandy Clay-loamy Shallow		<b>Principal Profile Form:</b>	Dr2.12
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Non-calci brown 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 - Heteropogon contortus, Bothriochloa pertusa, Panicum  
species                      Mid Strata - Tree, 3.01-6m, Very sparse. \*Species includes - Eucalyptus erythrophloia, Eucalyptus papuana

Tall Strata - Tree, 6.01-12m, Isolated plants. \*Species includes - Eucalyptus crebra

**Surface Coarse Fragments:** 10-20%, cobbly, 60-200mm, subrounded, Granodiorite

**Profile Morphology**

A1	0 - 0.08 m	Dark brown (7.5YR3/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm <sup>2</sup> ) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.08 - 0.3 m	Dark red (2.5YR3/6-Moist); Substrate influence, 5YR58, 2-10% , 0-5mm, Distinct; Substrate influence, 2-10% ; Clay loam; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm <sup>2</sup> ) Fine (1-2mm) macropores, Dry; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, fine (1-2mm) roots; Gradual, Smooth change to -
C	0.3 - 0.4 m	; , Calcareous, , ; , Gypseous, , ;

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.08	8.7A								
0.08 - 0.3	7A		9.1J	5	0.2	0.2		10I	2.00

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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