

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 85                      **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>	06/08/90	<b>Elevation:</b>	220 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7738396 AMG zone: 55	<b>Runoff:</b>	Rapid
<b>Easting/Lat.:</b>	485659    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>	Undisturbed soil core, Granulite

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Gently inclined
<b>Slope:</b>	4 %	<b>Aspect:</b>	30 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Bleached Eutrophic Brown Chromosol Medium Non-gravelly Sandy Clayey Deep	<b>Principal Profile Form:</b>	Dy2.43
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	No suitable

Analytical data are incomplete but reasonable confidence.

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

**Vegetation:**    Low Strata - Tussock grass, <0.25m, Very sparse. \*Species includes - Chrysopogon fallax, Heteropogon contortus,  
Aristida species Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus papuana, Bursaria incana  
Tall Strata - Tree, 6.01-12m, Very sparse. \*Species includes - Eucalyptus papuana, Eucalyptus crebra,

Eucalyptus

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

**Profile Morphology**

A1	0 - 0.08 m	Brown (10YR4/3-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); , fine (1-2mm) roots; Abrupt, Smooth change to -
A2e	0.08 - 0.12 m	Light olive brown (2.5Y5/4-Moist); ; Coarse sandy loam; Massive grade of structure; Earthy fabric; Dry; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; , Calcareous, , , , Gypseous, , , , fine (1-2mm) roots; Abrupt, Smooth change to -
B21	0.12 - 0.8 m	Yellowish brown (10YR5/6-Moist); Mottles, 7.5YR58, 0-2% , 0-5mm, Faint; Mottles, 0-2% ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Organic (humified), Coarse (6 - 20 mm), Soft segregations; , Calcareous, , , , Gypseous, , , Field pH 7.2 (Raupach, 0.6); , very fine (0-1mm) roots; Clear,
B22	0.8 - 1 m	Dark yellowish brown (10YR4/6-Moist); ; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , , , Gypseous, , , Field pH 9 (Raupach, 0.9); , very fine (0-1mm) roots; Clear, Smooth change to -
C	1 - 1.2 m	; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , Soil matrix is Highly calcareous; Field pH 9.5 (Raupach, 1.2); Clear, Smooth change to -

**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 Cmol (+)/kg	Acidity	%
0 - 0.08	7A		7B	2.2	0.94	0.06		
0.12 - 0.8	7.4A		6.6J	2.6	0.4	0.2	9.4I	2.13
0.8 - 1	7.7A							
1 - 1.2	7.7A		7.6B	3.5	0.31	0.15		

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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