

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 20                      **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>	26/06/90	<b>Elevation:</b>	320 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7774058 AMG zone: 55	<b>Runoff:</b>	Very rapid
<b>Easting/Lat.:</b>	496665    Datum: AGD66	<b>Drainage:</b>	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>	Existing vertical exposure, Igneous rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Steep low hills 30-90m 32-56%	<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>	Moderately inclined
<b>Slope:</b>	27 %	<b>Aspect:</b>	260 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Basic Paralithic Leptic Rudosol Very gravelly Sandy Moderately deep		<b>Principal Profile Form:</b>	Uc1.23
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Siliceous sand
All necessary analytical data are available.			

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

**Vegetation:**    Low Strata - , , . \*Species includes - Heteropogon contortus, Phynchelytrum repens, Stylosanthes humilis  
Mid Strata - , , . \*Species includes - Eucalyptus erythrophloia, Planchonia careya, Eucalyptus crebra  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

**Surface Coarse Fragments:** 20-50%, cobbly, 60-200mm, angular, Igneous rock (unidentified)

**Profile Morphology**

A11	0 - 0.03 m	Dark yellowish brown (10YR4/6-Moist); ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, angular, dispersed, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , ; Clear, Smooth change to -
A12	0.03 - 0.5 m	Strong brown (7.5YR4/6-Moist); ; Loamy sand; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Very weak consistence; 0-2%, coarse gravelly, 20-60mm, angular, dispersed, Substrate material, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Field pH 6.8 (Raupach, 0.5); Clear, Wavy change to -
C	0.5 - 0.55 m	; , Calcareous, , , , Gypseous, , ,

**Morphological Notes**

**Observation Notes**

**Site Notes**

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Exchangeable Na	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg	Acidity		%
0 - 0.03	7.2A		1.4B	2	0.19	0.08			
0.03 - 0.5	7.2A		1.4J	2.6	0.3	0.2		4.2I	4.76
0.5 -	7.5A								

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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