

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 523                      **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>	11/04/91	<b>Elevation:</b>	220 metres
<b>Map Ref.:</b>	Sheet No. : 8257    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7756348 AMG zone: 55	<b>Runoff:</b>	Slow
<b>Easting/Lat.:</b>	487242    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>	Existing vertical exposure, Igneous rock (unidentified)

**Land Form**

<b>Rel/Slope Class:</b>	Undulating low hills 30-90m 3-10%	<b>Pattern Type:</b>	Low hills
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Footslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	3 %	<b>Aspect:</b>	180 degrees

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

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Haplic Eutrophic Yellow Chromosol Thick Gravelly Loamy Clayey Moderately deep	<b>Principal Profile Form:</b>	Dy2.22
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Yellow podzolic soil
All necessary analytical data are available.		

**Site Disturbance:**    Cultivation. Irrigated, past or present

**Vegetation:**

**Surface Coarse Fragments:**    10-20%, coarse gravelly, 20-60mm, subangular, Igneous rock (unidentified)

**Profile Morphology**

A	0 - 0.5 m	Yellowish brown (10YR5/4-Moist); ; Sandy loam (Heavy); Earthy fabric; Dry; Loose consistence; 90-100%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.05);
B2	0.5 - 0.8 m	Olive yellow (2.5Y6/8-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; 90-100%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.6);
C	0.8 - 1.1 m	; Dry; 90-100%, coarse gravelly, 20-60mm, subangular, dispersed, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 1);

**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 - 0.5	7.4A								
0.5 - 0.8	7.6A		10.1J	3.2	0.7	0.4		12.1I	3.3I

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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