

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 60 **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>	24/07/90	<b>Elevation:</b>	260 metres
<b>Map Ref.:</b>	Sheet No. : 8158 GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7804410 AMG zone: 55	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	408823 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>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Ridge	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Levee	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	310 degrees

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

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>	Mapping Unit:	N/A
Basic No Available Class Stratic Rudosol Non-gravelly Sandy Very deep	<b>Principal Profile Form:</b>	Uc2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	Alluvial soil

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Paspalidium species  
Mid Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Planchonia careya  
Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - Eucalyptus tessellaris, Eucalyptus terminalis

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

#### Profile Morphology

A1	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Fine sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.8 (Raupach, 0.05); Common, very fine (0-1mm) roots;
C	0.1 - 0.65 m	Yellowish brown (10YR5/6-Moist); ; Sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 8.2 (Raupach, 0.3); Common, very fine (0-1mm) roots;
2A1b	0.65 - 0.7 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sand; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 7.5 (Raupach, 0.7); Common, very fine (0-1mm) roots;
2Cb	0.7 - 1.25 m	Dark greyish brown (10YR4/2-Moist); ; Fine sand; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Very weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.2);
3Cb	1.25 - 1.35 m	Yellowish brown (10YR5/6-Moist); ; Sand; Single grain grade of structure; Earthy fabric; Dry; Loose consistence; , Calcareous, , , , Gypseous, , ;
4Cb	1.35 - 2.1 m	Brown (7.5YR4/4-Moist); ; Fine sand; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 1.5);

#### 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 - 0.1	7.1A		6.2B	2.2	0.54	0.03			
0.1 - 0.65	7.4A		3.1J	1.3	0.6	0		5.6I	0.00
0.65 - 0.7	7.2A		4.9B	2.6	0.29	0.06			
0.7 - 1.25	7.4A		5.8B	2.7	0.29	0.06			
1.35 - 2.1	7.7A								

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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