

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 675 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	18/07/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8255 GPS	Rainfall:	No Data
Northing/Long.:	7642788 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	486403 Datum: AGD66	Drainage:	No Data

Geology

Exposure Type:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Undisturbed soil core, Siltstone

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Valley flat	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Grey Kandosol Medium Slightly gravelly Clayey Clayey Very deep		Principal Profile Form:	Ug
ASC Confidence:	No analytical data are available but confidence is fair.	Great Soil Group:	No suitable

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Chloris species, Cenchrus ciliaris
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, cobbly, 60-200mm, subangular tabular,

Profile Morphology

A1	0 - 0.23 m	Dark grey (10YR4/1-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Dry; Very strong consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.05); Few, very fine (0-1mm) roots;
B21	0.23 - 1.2 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moderately moist; Strong consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.6); Field pH 6.5 (Raupach, 1.2); Gradual change to -
D	1.2 - 1.4 m	Brown (10YR5/3-Moist); ; Sandy clay loam; Massive grade of structure; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Gradual change to -
2B	1.4 - 1.85 m	Dark greyish brown (10YR4/2-Moist); Mottles, 10YR68, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderately moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 1.8); Gradual change to -
3C	1.85 - 2.2 m	Yellowish brown (10YR5/8-Moist); Substrate influence, 10YR43, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Silty medium clay; Moderately moist; Weak consistence; Few (2 - 10 %), Manganiferous, , Soft segregations; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , , Field pH 9.5 (Raupach, 2.1); Gradual 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 - 0.23	6.9A								
0.23 - 1.2	6.3A		6.1J	8.4	0.1	5		21.5I	23.26
1.2 - 1.4	6.4A								
1.4 - 1.85	6.9A								

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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