

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 555 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M.G. Cannon	Locality:	
Date Desc.:	21/06/91	Elevation:	No Data
Map Ref.:	Sheet No. : 8158 GPS	Rainfall:	No Data
Northing/Long.:	7797762 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	418445 Datum: AGD66	Drainage:	No Data

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	0 degrees

Surface Soil Condition (dry): Hardsetting, Cracking

Erosion:

Soil Classification

Australian Soil Classification:	Epicalcareous Epipedal Brown Vertosol Non-gravelly Medium fine Very fine Very deep	Mapping Unit:	N/A
		Principal Profile Form:	Ug5.31
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Brown clay

Site Disturbance: Limited clearing, for example selective logging

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Sporobolus species, Chrysopogon fallax, Aristida oblongata species Mid Strata - Tree, 3.01-6m, Sparse. *Species includes - Eremophila mitchellii, Terminalia

Tall Strata - Tree, 12.01-20m, Very sparse. *Species includes - Acacia cambagei, Owenia acidula

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Weak consistence; , Calcareous, , , ; Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -
B21	0.05 - 0.3 m	Brown (7.5YR4/4-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Strong consistence; , Calcareous, , , ; Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Clear change to -
B22	0.3 - 0.4 m	Strong brown (7.5YR5/6-Moist); ; Medium heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Strong consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Gradual change to -
B23	0.4 - 0.8 m	Brown (7.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Strong consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft segregations; , Gypseous, , ; Field pH 9.5 (Raupach, 0.6); Gradual change to -
B23k	0.8 - 1.6 m	Reddish yellow (7.5YR6/6-Moist); ; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; , Calcareous, , , ; Gypseous, , ; Field pH 9.5 (Raupach, 1.2); Diffuse change to -
B24	1.6 - 2.1 m	Reddish yellow (7.5YR6/6-Moist); ; Light clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Very firm consistence; , Calcareous, , , ; Gypseous, , ; Field pH 9 (Raupach, 2.1);

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 Cmol (+)/kg	Acidity		%
0 - 0.05	6A		8.9B	4	0.38	0.12			
0.3 - 0.4	7.1A		16B	6.4	0.22	1.3		23.9I	5.44
			15.5J	6.3	0.2	0.8			3.35
0.4 - 0.8	8.5A		32B	7.7	0.16	3.1			
0.8 - 1.6	8.1A								
1.6 - 2.1	7.2A								

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Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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