

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 1645 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	Bright, J (Mitch)	Locality:	
Date Desc.:	20/07/93	Elevation:	No Data
Map Ref.:	Sheet No. : 8155 GPS	Rainfall:	No Data
Northing/Long.:	7643523 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	419039 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Self-Mulching Grey Vertosol Non-gravelly Medium fine Medium fine Very deep	Principal Profile Form:	Ug5.28
ASC Confidence:	Great Soil Group:	Black earth
Confidence level not specified		

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - Cenchrus ciliaris, Cyperus species
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 6.01-12m, Isolated plants. *Species includes - Acacia argyrodendron

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular tabular,

Profile Morphology

A1	0 - 0.07 m	Dark grey (2.5Y4/0-Moist); ; Light medium clay; Moderate grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 8 (Raupach, 0.05); Clear change to -
B21	0.07 - 0.6 m	Dark grey (10YR4/1-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Field pH 8.5 (Raupach, 0.3); Gradual change to -
B22	0.6 - 0.9 m	Light brownish grey (10YR6/2-Moist); ; Light medium clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Moderately moist; Firm consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 7 (Raupach, 0.7); Gradual change to -
	0.9 - 1.6 m	Grey (5Y6/1-Moist); ; Light medium clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Weak consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), , , , Calcareous, , ; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Field pH 7 (Raupach, 1.1); Gradual change to -
B3	1.6 - 2 m	Light brownish grey (10YR6/2-Moist); ; Light medium clay; Strong grade of structure, Lenticular; Smooth-ped fabric; Moist; Weak consistence; Many cutans, >50% of ped faces or walls coated, distinct; , Organic (humified), Fine (0 - 2 mm), Veins; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 1.8); Clear change to -
	2 - 2.2 m	; Very many (50 - 100 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Gypseous, , ; Soil matrix is Very highly calcareous; 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				%	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	CS	Size FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat		
m		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar				
					g/g -	m3/m3				mm/h	mm/h	

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Laboratory Analyses Completed for this profile