

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 211 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By:	M. DeCorte	Locality:	
Date Desc.:	11/04/91	Elevation:	260 metres
Map Ref.:	Sheet No. : 8257 GPS	Rainfall:	No Data
Northing/Long.:	7778481 AMG zone: 55	Runoff:	Very slow
Easting/Lat.:	487538 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Melanic Eutrophic Black Chromosol Thick Non-gravelly Clay-loamy Clayey Very deep	Principal Profile Form:	Dd1.43
ASC Confidence:	Great Soil Group:	Solodic soil

All necessary analytical data are available.

Site Disturbance: Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation:

Low Strata - Shrub, <0.25m, Closed or dense. *Species includes - Bothriochloa pertusa
Mid Strata - , , . *Species includes - None recorded
Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.19 m	Very dark brown (7.5YR2/2-Moist); ; Sandy clay loam; Strong grade of structure, 2-5 mm, Granular; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Gradual, Smooth change to -
A2e	0.19 - 0.37 m	Reddish brown (5YR4/3-Moist); ; Coarse sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Sharp, Smooth change to -
B1	0.37 - 0.67 m	Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few (2 - 10 %), Manganiferous, Fine (0 - 2 mm), Nodules; , Calcareous, , , , Gypseous, , , Field pH 7 (Raupach, 0.6); Few, very fine (0-1mm) roots; Abrupt, Wavy change to -
B21	0.67 - 1 m	Dark reddish brown (5YR3/2-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 0.9); Clear, Smooth change to -
B22k	1 - 1.5 m	Dark reddish brown (5YR3/3-Moist); ; Medium clay; Moderate grade of structure, 20-50 mm, Prismatic; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Nodules; , Gypseous, , , Field pH 8.5 (Raupach, 1.2); Field pH 8.5 (Raupach, 1.5); Gradual, Smooth change to -
B3k	1.5 - 1.9 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ,

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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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