

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD
Project Code: DLR **Site ID:** 7 **Observation ID:** 1
Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte	Locality:
Date Desc.: 20/06/90	Elevation: 270 metres
Map Ref.: Sheet No. : 8257 GPS	Rainfall: No Data
Northing/Long.: 7777439 AMG zone: 55	Runoff: Moderately rapid
Easting/Lat.: 485918 Datum: AGD66	Drainage: Poorly drained

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 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: 130 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Mottled-Mesonatric Yellow Sodosol Thick Non-gravelly Sandy Clayey Deep	Principal Profile Form: Dy3.43
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 - , , .	*Species includes - Bothriochloa pertusa, Aristida species
Mid Strata - , , .	*Species includes - None recorded
Tall Strata - , , .	*Species includes - None Recorded

Surface Coarse Fragments: 0-2%, fine gravelly, 2-6mm, subangular, Quartz

Profile Morphology

A1p	0 - 0.03 m	Brown (10YR4/3-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Common, fine (1-2mm) roots; Clear, Smooth change to -
A12	0.03 - 0.23 m	Brown (7.5YR4/3-Moist); ; Loamy coarse sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moist; Very weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 5.8 (Raupach, 0.05); Common, fine (1-2mm) roots; Clear, Smooth change to -
A21	0.23 - 0.35 m	Yellowish brown (10YR5/6-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Field pH 6 (Raupach, 0.3); Gradual, Smooth change to -
A22e	0.35 - 0.45 m	Yellowish brown (10YR5/6-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , , ; Abrupt, Wavy change to -
B21	0.45 - 0.65 m	Mottles, 10YR5/3, 10-20% , 5-15mm, Distinct; Mottles, 10YR6/4, 10-20% ; Medium clay; Weak grade of structure, 20-50 mm, Columnar; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7 (Raupach, 0.5); Clear, Smooth change to -
B22	0.65 - 1.18 m	; Medium clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 9.5 (Raupach, 0.9); Clear, Smooth change to -
B3k	1.18 - 1.35 m	; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Firm consistence; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , , ; Field pH 9.5 (Raupach, 1.35);

Morphological Notes

Observation Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0.03 - 0.23	7.4A		2.1B	0.61	0.15	0.06				
0.35 - 0.45	9.6A									
0.45 - 0.65	9.5A		6.1E	7.7	0.14	2.6		19B		13.68
			6.6J	7.6	0.2	3.6		21.9I		11.87
										18.95
										16.44
0.65 - 1.18	9.9A									
1.18 - 1.35	9.9A		5.4B	7.1	0.15	4.5		14B		32.14
			6E	6.6	0.13	3.4				24.29

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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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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