Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **213** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By: M. DeCorte
Date Desc.: 11/04/91
Map Ref.: Sheet No. : 8257 GPS
Northing/Long.: 7782510 AMG zone: 55
Easting/Lat.: 489889 Datum: AGD66
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No runoff
Drainage: Poorly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 0 %
Pattern Type: Plain
Relief: No Data
Slope Category: Level
Aspect: 0 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:
Acidic Paralithic Bleached-Orthic Tenosol Medium Non-gravelly Sandy Sandy Deep
Mapping Unit: N/A
Principal Profile Form: Uc2

ASC Confidence:
All necessary analytical data are available.
Great Soil Group: Siliceous sand

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - Eragrostis species, Digitaria species
Mid Strata - Tree, 3.01-6m, Isolated clumps. *Species includes - Melaleuca nervosa, Pandanus species
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus setosa, Planchonia careya

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1	0 - 0.11 m	Dark brown (10YR3/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.05); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A21e	0.11 - 0.45 m	Pinkish grey (7.5YR6/3-Moist); ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Few, very fine (0-1mm) roots; Clear, Smooth change to -
A22e	0.45 - 1.15 m	Pinkish grey (7.5YR6/3-Moist); Mottles, 7.5YR68, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Coarse sand; Massive grade of structure; Sandy (grains prominent) fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 4.5 (Raupach, 0.9); Abrupt, Smooth change to -
A23e	1.15 - 1.25 m	Pinkish grey (7.5YR7/3-Moist); Mottles, 5YR58, 10-20% , 15-30mm, Prominent; Mottles, 10-20% ; Clayey coarse sand; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Wet; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 4.5 (Raupach, 1.2);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.11	5.9A									
0.11 - 0.45	5.8A									
0.45 - 1.15	5.2A									
1.15 - 1.25	5.4A		0.4J	0.3	0.1	0.2		0.4I		50.00

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.11												
0.11 - 0.45												
0.45 - 1.15												
1.15 - 1.25												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.11									
0.11 - 0.45									
0.45 - 1.15									
1.15 - 1.25									

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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