Project Name: **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
Project Code: **DLR** **Site ID:** **2377** **Observation ID:** **1**
Agency Name: **QLD Department of Primary Industries**

Site Information

Desc. By:	M.G. Cannon	**Locality:**	
Date Desc.:	27/10/94	**Elevation:**	No Data
Map Ref.:	Sheet No. : 7860 GPS	**Rainfall:**	No Data
Northing/Long.:	7898499 AMG zone: 55	**Runoff:**	Slow
Easting/Lat.:	279833 Datum: AGD66	**Drainage:**	Imperfectly 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:	Crest	**Relief:**	No Data
Elem. Type:	Hillcrest	**Slope Category:**	Gently inclined
Slope:	3 %	**Aspect:**	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:
Endocalcareous Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Deep

Mapping Unit: N/A
Principal Profile Form: Ug5.1

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Black earth

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

Vegetation: Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - Themeda triandra
Mid Strata - , , . *Species includes - None recorded
Tall Strata - Tree, 3.01-6m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.04 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.02); Clear change to -
A12	0.04 - 0.25 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Diffuse change to -
B21	0.25 - 0.8 m	Very dark greyish brown (2.5Y3/2-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; 0-2%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Many cutans, >50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.55); Clear change to -
B22k	0.8 - 0.9 m	Olive brown (2.5Y3/3-Moist); ; Medium heavy clay; Strong grade of structure, 50-100 mm, Lenticular; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Dry; Strong consistence; Many cutans, >50% of ped faces or walls coated, prominent; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Nodules; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.85);

Morphological Notes

Observation Notes

Site Notes

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Project Code: DLR **Site ID:** 2377 **Observation ID:** 1
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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 - 0.04	6.5A		38B	26	0.62	0.11				
0.8 - 0.9	8.3A									

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 - 0.04												
0.8 - 0.9												

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 - 0.04										
0.8 - 0.9										

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Laboratory Analyses Completed for this profile

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
4A1	pH of 1:5 soil/water suspension