Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD

Project Code: DLR Site ID: 1605 Observation ID: 1

Agency Name: QLD Department of Primary Industries

**Site Information** 

Desc. By: Rogers, Gary Locality:

Date Desc.: 02/02/93 Elevation: No Data Sheet No.: 8058 GPS Map Ref.: Rainfall: No Data Northing/Long.: 7797844 AMG zone: 55 Runoff: Slow 375852 Datum: AGD66 Well drained Easting/Lat.: Drainage:

**Geology** 

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

**Land Form** 

Rel/Slope Class: No Data Pattern Type: No Data Morph. Type: Flat Relief: No Data Elem. Type: Plain Slope Category: Level Slope: 2 % Aspect: No Data

Surface Soil Condition (dry): Hardsetting

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/ABleached-Mottled Mesotrophic Brown Kandosol Medium Non-Principal Profile Form:Gn2.75

gravelly Loamy Clay-loamy Moderately deep

ASC Confidence: Great Soil Group: Yellow earth

All necessary analytical data are available.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Eriachne species, Chrysopogon fallax,

Aristida

Mid Strata - Tree, 3.01-6m, Sparse. \*Species includes - Eucalyptus crebra, Petalostigma pubescens,

Eremophila

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra

Surface Coarse Fragments: No surface coarse fragments

**Profile Morphology** 

A11 0 - 0.03 m Very dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.03); Common, very fine (0-1mm) roots;

Abrupt change to -

A12 0.03 - 0.1 m Very dark greyish brown (10YR3/2-Moist); Clayey sand (Heavy); Massive grade of structure;

Earthy fabric, Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.05); Common, very fine (0-1mm) roots; Clear change to -

A2 0.1 - 0.35 m Brown (10YR5/3-Moist); ; Clayey sand; Massive grade of structure; Earthy fabric; Dry; Weak

consistence; 10-20%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6

(Raupach, 0.2); Few, very fine (0-1mm) roots; Gradual change to -

B2 0.35 - 0.65 m Light olive brown (2.5Y5/6-Moist); Mottles, 5YR56, 10-20% , 5-15mm, Distinct; Mottles, 10-20% ;

Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Quartz, coarse fragments; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 6

(Raupach, 0.4); Common, fine (1-2mm) roots;

Morphological Notes
Observation Notes

**Site Notes** 

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## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exc	changeable Acidity	CEC	;	ECEC		ESP
m		dS/m		_		Cmol (	+)/k	g					%
0 - 0.03	5.3C 7.1A	0.05A	2.2B	0.65	0.28	0.04							
0.03 - 0.1	7.2A	0.04A	1.8B	0.53	0.22	0.04							
0.1 - 0.35	5.4C 7.3A	0.03A											
0.35 - 0.65	6.8A	0.03A	2.1B	1.4	0.09	0.46							
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K		Bulk Density	P GV	article CS	Size FS	Analysi Silt	s Clay
m	%	%	mg/kg	%	%	%		Mg/m3			%		,
0 - 0.03		0.73A		0.017A			94A			53A		_	8
0.03 - 0.1 0.1 - 0.35		0.41A		0.015A	0.01	A 0.9	96A			48A	38	6	8
0.35 - 0.65				0.016A		8.0	34A			44A	21	3	32
Depth	COLE		Gravimetric/Volumetric Water Contents K sat K unsat									ıt	
m		Sat.	0.05 Bar	0.1 Bar g/g	0.5 Bar g - m3/m3	1 Bar 3		5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.03 0.03 - 0.1 0.1 - 0.35 0.35 - 0.65

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## **Laboratory Analyses Completed for this profile**

10A1 Total sulfur - X-ray fluorescence Extractable sulfur(mg/kg) - Phosphate extractable sulfur 10B 12A1\_CU DTPA - extractable copper, zinc, manganese and iron 12A1\_FE DTPA - extractable copper, zinc, manganese and iron

12A1\_MN DTPA - extractable copper, zinc, manganese and iron 12A1\_ZN DTPA - extractable copper, zinc, manganese and iron

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 Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 15A2 MG 15A2\_NA Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts

17A1 Total potassium - X-ray fluorescence 3A1 EC of 1:5 soil/water extract pH of 1:5 soil/water suspension 4A1

pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 4B2

5A1 Chloride - 1:5 soil/water extract, potentiometric titration

6A1 Organic carbon - Walkley and Black

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9A1 Total phosphorus - X-ray fluorescence P10\_CF\_C Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method P10\_CF\_CS

P10\_CF\_FS P10\_CF\_Z Silt (%) - Coventry and Fett pipette method