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

Observation ID: 1 **Project Code:** Site ID: 1170

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: Locality: Rogers, Garv

Date Desc.: 04/06/92 Elevation: 300 metres Sheet No.: 8058 GPS Map Ref.: Rainfall: No Data 7797831 AMG zone: 55 Runoff: Northing/Long.: No Data 392276 Datum: AGD66 Poorly drained Easting/Lat.: Drainage:

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Substrate Material: Geol. Ref.: No Data Undisturbed soil core, No Data

Land Form

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

Surface Soil Condition (dry): Hardsetting, Surface crust

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Vertic Eutrophic Grey Dermosol Thin Slightly gravelly Clayey Principal Profile Form: Uf6.22

Clayey Deep

ASC Confidence: Grey clay **Great Soil Group:**

All necessary analytical data are available.

<u>Site Disturbance:</u> No effective disturbance other than grazing by hoofed animals

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Sparse. *Species includes - Dichanthium species, Digitaria species,

Chrysopogon fallax Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eremophila mitchellii,

Atalaya hemiglauca

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

Surface Coarse Fragments: 2-10%, medium gravelly, 6-20mm, subrounded, Quartz

Profile Morphology

0 - 0.09 m Dark grey (5Y4/1-Moist); ; Medium clay; Moderate grade of structure, Angular blocky; Smooth-ped

fabric; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; , Calcareous, , ; ,

Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to -

B21 0.09 - 0.8 m Dark grey (2.5Y4/1-Moist); ; Medium heavy clay (Heavy); Moderate grade of structure, Lenticular;

Smooth-ped fabric; 2-10%, fine gravelly, 2-6mm, rounded, Quartz, coarse fragments; ,

Calcareous, , ; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 8.5 (Raupach, 0.7);

Gradual change to -

B22 0.8 - 1.4 m Greyish brown (2.5Y5/3-Moist); ; Medium heavy clay; Moderate grade of structure; Smooth-ped

fabric; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.3);

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

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Depth pH					Exchangeable Na Acidity		CEC		ECEC	ESP
	dS/m		•							%
6.8A		5.1B	9.9	0.39	0.4					
8.2A 6.5A		11B	14	0.11	5.7					
CaCO3	Organic	Avail.	Total P	Total N	Total K	Bulk Density				Analysis Silt Clay
%	%	mg/kg	%	%	%	Mg/m3	٠.	00	%	Om Only
COLE		Gravimetric/Volumetric Water Contents						K sat		K unsat
	Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm	ı/h	mm/h
	pH 6.8A 8.2A 6.5A CaCO3 %	pH 1:5 EC dS/m 6.8A 8.2A 6.5A CaCO3 Organic C %	pH 1:5 EC Ca Ca dS/m 6.8A 5.1B 8.2A 11B 6.5A CaCO3 Organic Avail. C P mg/kg	pH 1:5 EC dS/m Exchangeable Mg Ca Mg Ca Mg dS/m Ca Mg 6.8A 5.1B 9.9 8.2A 6.5A 11B 14 CaCO3 Organic C P P P Mg/kg % Avail. Total C P P P Mg/kg % COLE Sat. 0.05 Bar 0.1 Bar O.1 Bar	pH 1:5 EC dS/m Exchangeable Cations Mg Cations K 6.8A 8.2A 6.5A 5.1B 9.9 0.39 11B 14 0.11 6.5A 11B 14 0.11 CaCO3 Organic C N	pH 1:5 EC dS/m Exchangeable Cations Ca M/g K Na Cmol (+)// Ca M/g K Na Cmol (+)// Cations Cat	PH	PH	PH	PH

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Laboratory Analyses Completed for this profile

10B

Extractable sulfur(mg/kg) - Phosphate extractable sulfur Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for 15A2_CA

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

Exchangeable sodium percentage (ESP) pH of 1:5 soil/water suspension 15N1

4A1