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

Observation ID: 1 **Project Code:** Site ID: 147

Agency Name: QLD Department of Primary Industries

Site Information

M. DeCorte Locality: Desc. Bv:

Date Desc.: 06/09/90 Elevation: 455 metres Map Ref.: Sheet No.: 8060 GPS Rainfall: No Data Northing/Long.: 7910084 AMG zone: 55 Runoff: Very rapid

Moderately well drained 349186 Datum: AGD66 Easting/Lat.: Drainage:

Geology

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

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-Pattern Type: Low hills

Mid-slope Morph. Type: Relief: No Data Elem. Type: Hillslope Slope Category: Gently inclined Aspect: 120 degrees Slope: 9 %

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Mottled Mesotrophic Brown Chromosol Medium Gravelly **Principal Profile Form:** Dy3.32

Loamy Clayey Moderately deep

ASC Confidence: No suitable group **Great Soil Group:**

Analytical data are incomplete but reasonable confidence.

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

Vegetation: Low Strata - Tussock grass, 0.26-0.5m, Very sparse. *Species includes - Aristida species, Enneapogon species,

Themeda triandra Mid Strata - Tree, 1.01-3m, Sparse. *Species includes - Eucalyptus brownii

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

Surface Coarse Fragments: 10-20%, cobbly, 60-200mm, angular,

Profile Morphology

0 - 0.03 m Brown (10YR4/3-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Many (>5 per A2i 100mm2) Very fine (0.075-1mm) macropores, Dry; Very firm consistence; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Quartzite, coarse fragments; , Calcareous, , ; , Gypseous,

, ; Few, very fine (0-1mm) roots; Abrupt, Smooth change to

АЗ 0.03 - 0.2 m ; 90-100%, coarse gravelly, 20-60mm, angular, dispersed, Quartzite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Abrupt, Smooth change to -

0.2 - 0.5 m R21h Yellowish brown (10YR5/6-Moist); Mottles, 5YR58, 20-50%, 5-15mm, Distinct; Mottles, 20-50%;

Medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; , Calcareous, , ; ,

Gypseous, , ; Field pH 6 (Raupach, 0.3); Clear, Smooth change to -

B/C 0.5 - 0.8 m Brownish yellow (10YR6/8-Moist); ; Medium clay; Strong grade of structure, 5-10 mm, Angular

blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Dry;

Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.8);

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 147 Observation ID: 1 QLD Department of Primary Industries

Project Name: Project Code: Agency Name:

Laboratory Test Results:

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pН	1:5 EC			e Cations K	Na		CEC		ECEC	ESP
	dS/m		9							%
6.5A		4.6B	1.6	0.25	0.09					
6.1A		1.8J	4.9	0.1	0.1		7.51			1.33
5.8A		0.99B	5.5	0.06	2.6		14B			18.57
		1E	4	0.03	0.96					6.86
CaCO3	Organic	Avail.	Total P	Total N						Analysis Silt Clay
%	%	mg/kg	%	%	%	Mg/m3	٥.	00	%	one only
COLE		Gravimetric/Volumetric Water Contents K sat						sat	K unsat	
	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar			
			g/	/g - m3/m	3			mm	n/h	mm/h
	pH 6.5A 6.1A 5.8A CaCO3 %	dS/m 6.5A 6.1A 5.8A CaCO3 Organic C % COLE	pH 1:5 EC Ca Ca dS/m 6.5A 4.6B 6.1A 1.8J 5.8A 0.99B 1E CaCO3 Organic C P mg/kg COLE Grav	pH 1:5 EC dS/m Exchangeable Mg Mg and Mg an	pH 1:5 EC dS/m Exchangeable Cations Ca Mg Cations K 6.5A 4.6B 1.6 0.25 6.1A 1.8J 4.9 0.1 5.8A 0.99B 5.5 0.06 1E 4 0.03 CaCO3 Organic C P P P N mg/kg N % % %	pH 1:5 EC dS/m Exchangeable Cations Mg K Na Cmol (4) 6.5A 4.6B 1.6 0.25 0.09 6.1A 1.8J 4.9 0.1 0.1 5.8A 0.99B 5.5 0.06 2.6 1E 4 0.03 0.96 CaCO3 Organic C P P P N K K mg/kg % % % % %	pH 1:5 EC dS/m Exchangeable Agidity (Cmol (+)/kg) Exchangeable Agidity (Cmol (+)/kg) Exchangeable Agidity (Cmol (+)/kg) 6.5A dG/sh 4.6B dS/m 1.6 dB/sh 0.25 dB/sh 0.09 dB/sh 0.09 dB/sh 0.01 dB/sh 0.1 dB/sh 0.1 dB/sh 0.01 dB/sh 0.01 dB/sh 0.02 dB/sh 0.01 dB/sh 0.01 dB/sh 0.01 dB/sh 0.09 dB/sh 0.09 dB/sh 0.09 dB/sh 0.01 dB/sh 0.05 dB/sh 0.1 dB/sh	PH 1:5 EC Exchangeable Cations Na Acidity Cmol (+)/kg Exchangeable CEC 6.5A 4.6B 1.6 0.25 0.09 Colspan="6">Cmol (+)/kg Cmol (+)/kg <td> PH</td> <td>PH 1:5 EC Exchangeable Cations Exchangeable Acidity CEC ECEC dS/m Acidity Cmol (+)/kg CEC ECEC 6.5A 4.6B 1.6 0.25 0.09 0.09 7.5I 7.5I 7.5I 5.8A 1.8J 4.9 0.1 0.1 7.5I 7.5I 14B 14B 14B 14B 1.8J 4.9 0.06 2.6 14B 14B 14B 1.8J 4.9 0.03 0.96 14B 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.09 8.8J 1.8J <td< td=""></td<></td>	PH	PH 1:5 EC Exchangeable Cations Exchangeable Acidity CEC ECEC dS/m Acidity Cmol (+)/kg CEC ECEC 6.5A 4.6B 1.6 0.25 0.09 0.09 7.5I 7.5I 7.5I 5.8A 1.8J 4.9 0.1 0.1 7.5I 7.5I 14B 14B 14B 14B 1.8J 4.9 0.06 2.6 14B 14B 14B 1.8J 4.9 0.03 0.96 14B 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.03 0.96 1.8J 1.8J 4.9 0.09 8.8J 1.8J 1.8J <td< td=""></td<>

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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