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

Observation ID: 1 **Project Code:** Site ID: 201

Agency Name: QLD Department of Primary Industries

Site Information

Desc. By: M. DeCorte Locality:

Date Desc.: 09/04/91 Elevation: 260 metres Map Ref.: Sheet No.: 8258 GPS Rainfall: No Data Northing/Long.: 7790552 AMG zone: 55 Runoff: Very slow 457692 Datum: AGD66 Well drained Easting/Lat.: Drainage:

Geology

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

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

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Plain

1-3%

Flat Morph. Type: Relief: No Data

Elem. Type: Plain Slope Category: Very gently sloped 270 degrees Slope: 2 % Aspect:

Surface Soil Condition (dry): Cracking, Surface crust

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A Endocalcareous Epipedal Black Vertosol Slightly gravelly **Principal Profile Form:** Ug5.15

Medium fine Very fine Very deep

Great Soil Group: Black earth **ASC Confidence:**

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, Mid-dense. *Species includes - Bothriochloa pertusa, Dichanthium

sericeum,

Mid Strata - Shrub, 0.51-1m, Very sparse. *Species includes - Acacia farnesiana Heteropogon contortus

Tall Strata - , , . *Species includes - None Recorded

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Igneous rock (unidentified)

Profile Morphology

Α1 0 - 0.04 m Black (10YR2/1-Moist); ; Medium clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Very coarse, (20 - 50) mm crack; Many (>5 per 100mm2) Medium (2-5mm) macropores, Moderately moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm)

roots; Clear, Smooth change to -

B21 0.04 - 0.5 m Black (10YR2/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-

ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Igneous rock (unidentified), coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, very fine (0-1mm) roots; Gradual, Smooth change to -

B22k Black (10YR2/1-Moist); ; Heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Smooth-0.5 - 1.2 m

ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Igneous rock (unidentified), coarse fragments; Few cutans, <10% of ped faces or walls coated, distinct; Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.9); Diffuse, Smooth change to -

B3k Dark yellowish brown (10YR4/4-Moist); ; Light medium clay; Moderate grade of structure, 20-50 1.2 - 1.6 m

mm, Lenticular; Smooth-ped fabric; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Few cutans, <10% of ped faces or walls coated, distinct; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field

pH 8 (Raupach, 1.5); Clear, Smooth change to

С ; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; , Gypseous, , ; Field pH 8 (Raupach, 1.6 - 1.95 m

1.95):

Morphological Notes

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 201 Observation ID: 1

Project Name: Project Code: Agency Name: DLR Site ID: 201
QLD Department of Primary Industries

Laboratory Test Results:

ESP
%
3.46 3.45
17.08
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ınsat m/h

^{0.04 - 0.5} 0.5 - 1.2 1.2 - 1.6 1.6 - 1.95

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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 Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts 15F1_K 15F1_MG 15F1_NA Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+

15F3 15N1 Exchangeable sodium percentage (ESP)

4A1 pH of 1:5 soil/water suspension