**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **62** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

## Site Information

**Desc. By:** M. DeCorte
**Date Desc.:** 24/07/90
**Map Ref.:** Sheet No. : 8158 GPS
**Northing/Long.:** 7804381 AMG zone: 55
**Easting/Lat.:** 403441 Datum: AGD66
**Locality:**
**Elevation:** 285 metres
**Rainfall:** No Data
**Runoff:** Very slow
**Drainage:** Well drained

## Geology

**ExposureType:** No Data
**Geol. Ref.:** No Data
**Conf. Sub. is Parent. Mat.:** No Data
**Substrate Material:** Undisturbed soil core, Basalt

## Land Form

**Rel/Slope Class:** Gently undulating plains <9m 1-3%
**Morph. Type:** Flat
**Elem. Type:** Plain
**Slope:** 2 %
**Pattern Type:** Plain
**Relief:** No Data
**Slope Category:** Very gently sloped
**Aspect:** 0 degrees

## Surface Soil Condition (dry): Hardsetting

## Erosion:

## Soil Classification

**Australian Soil Classification:**
Haplic Eutrophic Red Ferrosol Thin Slightly gravelly Clayey Clayey Very shallow
**Mapping Unit:** N/A
**Principal Profile Form:** Uf6.31

**ASC Confidence:**
All necessary analytical data are available.
**Great Soil Group:** Euchrozem

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

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Sparse. *Species includes - Bothriochloa decipiens, Bothriochloa pertusa
Mid Strata - Tree, 1.01-3m, Isolated plants. *Species includes - Eucalyptus erythrophloia
Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra, Eucalyptus papuana

**Surface Coarse Fragments:** 2-10%, cobbly, 60-200mm, subangular, Basalt

## Profile Morphology

| | | |
|---|---|---|
| A1 | 0 - 0.03 m | Dark red (2.5YR3/5-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Many, fine (1-2mm) roots; Clear, Smooth change to - |
| B21 | 0.03 - 0.15 m | Dark red (2.5YR3/5-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.2 (Raupach, 0.1); Many, fine (1-2mm) roots; Abrupt, Smooth change to - |
| C | 0.15 - 0.3 m | ; , Calcareous, , ; , Gypseous, , ; |

## Morphological Notes

## Observation Notes

## Site Notes

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD
**Project Code:** DLR **Site ID:** 62 **Observation ID:** 1
**Agency Name:** QLD Department of Primary Industries

## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0.03 - 0.15 | 6.7A | | 9.7B | 4.1 | 1.4 | 0.08 | | 14.4I | | 0.56 |
| | | | 9.4J | 4.5 | 1.1 | 0.2 | | | | 1.39 |

| 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 | | | % | | |
| 0.03 - 0.15 | | | | | | | | | | | | |

| 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 |
| 0.03 - 0.15 | | | | | | | | | | |

**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **62** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

**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 |
| 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 |