**Project Name:** **Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD**
**Project Code:** **DLR** **Site ID:** **633** **Observation ID:** **1**
**Agency Name:** **QLD Department of Primary Industries**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | M.G. Cannon | **Locality:** | |
| **Date Desc.:** | 28/05/91 | **Elevation:** | No Data |
| **Map Ref.:** | Sheet No. : 8158-1 GPS | **Rainfall:** | No Data |
| **Northing/Long.:** | 7838566 AMG zone: 55 | **Runoff:** | Moderately rapid |
| **Easting/Lat.:** | 429337 Datum: AGD66 | **Drainage:** | Imperfectly drained |

## Geology

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

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Undulating rises 9-30m 3-10% | **Pattern Type:** | Pediplain |
| **Morph. Type:** | Mid-slope | **Relief:** | No Data |
| **Elem. Type:** | Pediment | **Slope Category:** | Gently inclined |
| **Slope:** | 3 % | **Aspect:** | 95 degrees |

**Surface Soil Condition (dry):** Hardsetting

**Erosion:**

## Soil Classification

**Australian Soil Classification:**
Haplic Eutrophic Red Chromosol Thick Non-gravelly Sandy Clayey Moderately deep

**Mapping Unit:** N/A
**Principal Profile Form:** Dy3.32

**ASC Confidence:**
No analytical data are available but confidence is fair.

**Great Soil Group:** No suitable

**Site Disturbance:** Limited clearing, for example selective logging

**Vegetation:** Low Strata - Tussock grass, 0.51-1m, Closed or dense. *Species includes - Bothriochloa species, Dichanthium species,
Heteropogon contortus Mid Strata - , , . *Species includes - None recorded

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

**Surface Coarse Fragments:**

## Profile Morphology

| | | |
|---|---|---|
| A11 | 0 - 0.08 m | Dark brown (7.5YR3/2-Moist); ; Sand; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.7 (Raupach, 0.05); Clear change to - |
| A12 | 0.08 - 0.2 m | Brown (7.5YR4/2-Moist); ; Loamy sand; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.7 (Raupach, 0.15); Clear change to - |
| A2j | 0.2 - 0.3 m | Reddish grey (5YR5/2-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; 10-20%, medium gravelly, 6-20mm, subangular, dispersed, Silcrete, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.25); Abrupt change |
| B21 | 0.3 - 0.62 m | Red (2.5YR5/8-Moist); Substrate influence, 5YR63, 20-50% , 5-15mm, Distinct; Substrate influence, 20-50% ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.6); Gradual change to - |
| B22 | 0.62 - 0.85 m | Pinkish grey (5YR6/2-Moist); , 2.5YR58, 10-20% , 5-15mm, Distinct; , 10-20% ; Light medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.85); Abrupt change to - |
| C | 0.85 - 1.1 m | ; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 1.1); |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | Acidity | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |

| 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 | | | % | | |

| 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 |

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**Laboratory Analyses Completed for this profile**