

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2323 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |         |
|------------------------|----------------------|-------------------|---------|
| <b>Desc. By:</b>       | M.G. Cannon          | <b>Locality:</b>  |         |
| <b>Date Desc.:</b>     | 13/05/94             | <b>Elevation:</b> | No Data |
| <b>Map Ref.:</b>       | Sheet No. : 8060 GPS | <b>Rainfall:</b>  | No Data |
| <b>Northing/Long.:</b> | 7948280 AMG zone: 55 | <b>Runoff:</b>    | No Data |
| <b>Easting/Lat.:</b>   | 350664 Datum: AGD66  | <b>Drainage:</b>  | No Data |

#### Geology

|                      |         |                                    |         |
|----------------------|---------|------------------------------------|---------|
| <b>ExposureType:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data |
| <b>Geol. Ref.:</b>   | No Data | <b>Substrate Material:</b>         | No Data |

#### Land Form

|                         |                                       |                        |                 |
|-------------------------|---------------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Gently undulating rises 9-30m<br>1-3% | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Lower-slope                           | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Fan                                   | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | %                                     | <b>Aspect:</b>         | No Data         |

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

#### Erosion:

#### Soil Classification

|   |                                |                      |
|---|--------------------------------|----------------------|
| <b>Australian Soil Classification:</b>  | <b>Mapping Unit:</b>           | N/A                  |
| Bleached-Mottled Mesotrophic Grey Chromosol Medium Non-gravelly Sandy Clayey Deep | <b>Principal Profile Form:</b> | Dg4.41               |
| <b>ASC Confidence:</b>  | <b>Great Soil Group:</b>       | Gleyed podzolic soil |
| No analytical data are available but confidence is fair.                          |                                |                      |

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

#### Vegetation:

Low Strata - Tussock grass, 0.26-0.5m, Sparse. \*Species includes - Enneapogon species, Imperata cylindrica  
 Mid Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - Melaleuca viridiflora, Eucalyptus platyphylla, Acacia spectabilis  
 Tall Strata - Tree, 12.01-20m, Isolated plants. \*Species includes - Eucalyptus platyphylla, Eucalyptus cambageana,  
 Eucalyptus polycarpa

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

|      |               |  |
|------|---------------|--|
| A11  | 0 - 0.05 m    | Very dark greyish brown (10YR3/2-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05);   |
| A12j | 0.05 - 0.25 m | Dark brown (10YR3/3-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach,   |
| A2e  | 0.25 - 0.7 m  | Light brownish grey (10YR6/2-Moist); ; Coarse sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.6);   |
| B1   | 0.7 - 0.8 m   | Light grey (10YR7/2-Moist); ; Coarse sandy clay loam (Heavy); Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.5 (Raupach, 0.8);   |
| B21  | 0.8 - 1.2 m   | Light grey (10YR7/2-Moist); Mottles, 10YR68, 20-50% , 15-30mm, Prominent; Mottles, 20-50% ; Medium heavy clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 5.8 (Raupach, |

#### 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: 2323 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 |
|-------|----|--------|----------------------|----|----------------------|-------------|-----|------|-----|
| m     |    | dS/m   | Ca                   | Mg | K                    | Na          |     |      | %   |
|       |    |        |                      |    |                      | Cmol (+)/kg |     |      |     |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size | Analysis  |
|-------|-------|-----------|----------|---------|---------|---------|--------------|---------------|-----------|
| m     | %     | %         | mg/kg    | %       | %       | %       | Mg/m3        | GV CS FS      | Silt Clay |
|       |       |           |          |         |         |         |              | %             |           |

| 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 |

Project Name: Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD  
Project Code: DLR Site ID: 2323 Observation ID: 1  
Agency Name: QLD Department of Primary Industries

Laboratory Analyses Completed for this profile