

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 1070 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |            |
|------------------------|----------------------|-------------------|------------|
| <b>Desc. By:</b>       | Rogers, Gary         | <b>Locality:</b>  |            |
| <b>Date Desc.:</b>     | 22/04/92             | <b>Elevation:</b> | 200 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8256 GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7695180 AMG zone: 55 | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 454598 Datum: AGD66  | <b>Drainage:</b>  | No Data    |

#### Geology

|                       |         |                                    |                                |
|-----------------------|---------|------------------------------------|--------------------------------|
| <b>Exposure Type:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                        |
| <b>Geol. Ref.:</b>    | No Data | <b>Substrate Material:</b>         | Undisturbed soil core, No Data |

#### Land Form

|                         |                                      |                        |                    |
|-------------------------|--------------------------------------|------------------------|--------------------|
| <b>Rel/Slope Class:</b> | Gently undulating plains <9m<br>1-3% | <b>Pattern Type:</b>   | Plain              |
| <b>Morph. Type:</b>     | Crest                                | <b>Relief:</b>         | No Data            |
| <b>Elem. Type:</b>      | Plain                                | <b>Slope Category:</b> | Very gently sloped |
| <b>Slope:</b>           | 2 %                                  | <b>Aspect:</b>         | No Data            |

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

#### Erosion:

#### Soil Classification

|  |                                |             |
|--|--------------------------------|-------------|
| <b>Australian Soil Classification:</b>                   | Mapping Unit:                  | N/A         |
| Basic Regolithic Orthic Tenosol Thick Non-gravelly Sandy | <b>Principal Profile Form:</b> | Uc5.11      |
| Sandy Moderately deep                                    | <b>Great Soil Group:</b>       | Earthy sand |

**ASC Confidence:**  
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 - Heteropogon contortus, Aristida species  
Mid Strata - Tree, 1.01-3m, Mid-dense. \*Species includes - Acacia torulosa, Petalostigma pubescens, Acacia species  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus polycarpa

#### Surface Coarse Fragments:

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A11 | 0 - 0.15 m    | Dark yellowish brown (10YR4/4-Moist); ; Loamy sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.05); Clear change to - |
| A12 | 0.15 - 0.33 m | Dark brown (7.5YR3/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.3); Clear change to -          |
| B2  | 0.33 - 0.6 m  | Strong brown (7.5YR5/8-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; , Calcareous, , , Gypseous, , ; Field pH 6 (Raupach, 0.6);                          |

#### Morphological Notes

#### Observation Notes

#### Site Notes

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Laboratory Test Results:

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

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

| Depth | COLE | Gravimetric/Volumetric Water Contents |          |         |         |       |       | K sat  | K unsat |      |
|-------|------|---------------------------------------|----------|---------|---------|-------|-------|--------|---------|------|
| m     |      | Sat.                                  | 0.05 Bar | 0.1 Bar | 0.5 Bar | 1 Bar | 5 Bar | 15 Bar |         |      |
|       |      |                                       |          |         | g/g -   | m3/m3 |       |        | mm/h    | mm/h |

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Laboratory Analyses Completed for this profile