

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2077 **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

|                        |                      |                   |                         |
|------------------------|----------------------|-------------------|-------------------------|
| <b>Desc. By:</b>       | Barry, Earl          | <b>Locality:</b>  |                         |
| <b>Date Desc.:</b>     | 22/06/93             | <b>Elevation:</b> | No Data                 |
| <b>Map Ref.:</b>       | Sheet No. : 8255 GPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 7646304 AMG zone: 55 | <b>Runoff:</b>    | Rapid                   |
| <b>Easting/Lat.:</b>   | 453954 Datum: AGD66  | <b>Drainage:</b>  | Moderately well drained |

#### 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>         | Undisturbed soil core, No Data |

#### Land Form

|                         |                             |                        |                 |
|-------------------------|-----------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Undulating hills 90-300m 3- | <b>Pattern Type:</b>   | Hills           |
| <b>Morph. Type:</b>     | Lower-slope                 | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Hillslope                   | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 7 %                         | <b>Aspect:</b>         | No Data         |

#### Surface Soil Condition (dry):

#### Erosion:

#### Soil Classification

|   |                                |        |
|---|--------------------------------|--------|
| <b>Australian Soil Classification:</b>  | <b>Mapping Unit:</b>           | N/A    |
| Mottled Eutrophic Red Dermosol Medium Gravelly Clayey<br>Clayey Moderately deep | <b>Principal Profile Form:</b> | Uf4.41 |

|  |                          |     |
|--|--------------------------|-----|
| <b>ASC Confidence:</b>                                   | <b>Great Soil Group:</b> | N/A |
| No analytical data are available but confidence is fair. |                          |     |

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

**Vegetation:** Low Strata - Hummock grass, <0.25m, Very sparse. \*Species includes - *Triodia mitchellii*  
Mid Strata - Tree, 3.01-6m, Mid-dense. \*Species includes - *Eremophila mitchellii*, *Terminalia oblongata*  
Tall Strata - Tree, 12.01-20m, Mid-dense. \*Species includes - *Eucalyptus thozetiana*, *Acacia catenulata*

**Surface Coarse Fragments:** 10-20%, fine gravelly, 2-6mm, rounded, Ironstone

#### Profile Morphology

|     |               |   |
|-----|---------------|---|
| A11 | 0 - 0.14 m    | Brown (10YR4/3-Moist); ; Sandy light clay; Single grain grade of structure; Dry; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, subangular, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.1); Clear change to - |
| A2  | 0.14 - 0.33 m | Strong brown (7.5YR4/5-Moist); ; Light clay; Single grain grade of structure; Dry; Very weak consistence; 50-90%, coarse gravelly, 20-60mm, subangular, Sandstone, coarse fragments; , Calcareous, , , , Gypseous, , , Field pH 6 (Raupach, 0.2);                   |
| B21 | 0.33 - 0.7 m  | Red (2.5YR4/8-Moist); ; Light medium clay; Smooth-ped fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.6);   |
| B22 | 0.7 - 0.9 m   | White (5Y8/1-Moist); Mottles, 2.5YR48, 10-20% , Prominent; Mottles, 10-20% ; Light medium clay; Smooth-ped fabric; Dry; , Calcareous, , , , Gypseous, , , Field pH 5.5 (Raupach, 0.8);  |

#### 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