

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 468                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

**Site Information**

|                        |                         |                   |            |
|------------------------|-------------------------|-------------------|------------|
| <b>Desc. By:</b>       | Bright, J (Mitch)       | <b>Locality:</b>  |            |
| <b>Date Desc.:</b>     | 05/11/91                | <b>Elevation:</b> | 321 metres |
| <b>Map Ref.:</b>       | Sheet No. : 8156    GPS | <b>Rainfall:</b>  | No Data    |
| <b>Northing/Long.:</b> | 7722637 AMG zone: 55    | <b>Runoff:</b>    | No Data    |
| <b>Easting/Lat.:</b>   | 443175    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>         | Undisturbed soil core, No Data |

**Land Form**

|                         |                          |                        |             |
|-------------------------|--------------------------|------------------------|-------------|
| <b>Rel/Slope Class:</b> | Steep rises 9-30m 32-56% | <b>Pattern Type:</b>   | Escarpment  |
| <b>Morph. Type:</b>     | Crest                    | <b>Relief:</b>         | No Data     |
| <b>Elem. Type:</b>      | Hillcrest                | <b>Slope Category:</b> | Level       |
| <b>Slope:</b>           | 2 %                      | <b>Aspect:</b>         | 180 degrees |

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

**Erosion:**

**Soil Classification**

|                                                                                            |                                |           |
|--------------------------------------------------------------------------------------------|--------------------------------|-----------|
| <b>Australian Soil Classification:</b>                                                     | <b>Mapping Unit:</b>           | N/A       |
| Ferric Petroferric Red Kandosol Medium Slightly gravelly Clay-loamy Clayey Moderately deep | <b>Principal Profile Form:</b> | Gn2.12    |
| <b>ASC Confidence:</b>                                                                     | <b>Great Soil Group:</b>       | Red earth |

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 - Chrysopogon fallax, Digitaria species, Heteropogon contortus                      Mid Strata - Tree, 1.01-3m, Sparse. \*Species includes - Eucalyptus crebra

Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra, Eucalyptus erythrophloia

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

**Profile Morphology**

|    |              |                                                                                                                                                                                                                                                                                   |
|----|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1 | 0 - 0.12 m   | Reddish brown (5YR4/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05);      |
| B1 | 0.12 - 0.3 m | Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.3);   |
| B2 | 0.3 - 0.7 m  | Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moderately moist; Very weak consistence; 50-90%, medium gravelly, 6-20mm, subrounded, dispersed, Ferricrete, coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.7); |

**Morphological Notes**

**Observation Notes**

**Site Notes**

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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 |

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Laboratory Analyses Completed for this profile