

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2241 **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>     | 21/10/93             | <b>Elevation:</b> | No Data                 |
| <b>Map Ref.:</b>       | Sheet No. : 7957 GPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 7889931 AMG zone: 55 | <b>Runoff:</b>    | Very rapid              |
| <b>Easting/Lat.:</b>   | 305609 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>         | Existing vertical exposure, Sandstone |

#### Land Form

|                         |                                   |                        |                 |
|-------------------------|-----------------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Undulating low hills 30-90m 3-10% | <b>Pattern Type:</b>   | Low hills       |
| <b>Morph. Type:</b>     | Simple-slope                      | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Hillslope                         | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | 10 %                              | <b>Aspect:</b>         | No Data         |

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

#### Erosion:

#### Soil Classification

|  |                                |             |
|--|--------------------------------|-------------|
| <b>Australian Soil Classification:</b>   | <b>Mapping Unit:</b>           | N/A         |
| Eutrophic Mottled-Subnatic Brown Sodosol Medium Non-gravelly Clay-loamy Clayey Moderately deep | <b>Principal Profile Form:</b> | Dy2.13      |
| <b>ASC Confidence:</b>   | <b>Great Soil Group:</b>       | No suitable |
| No analytical data are available but confidence is fair.                                       |                                |             |

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

**Vegetation:** Low Strata - Hummock grass, 0.26-0.5m, Sparse. \*Species includes - Triodia mitchellii, Themeda triandra  
Mid Strata - Shrub, 3.01-6m, Sparse. \*Species includes - Petalostigma pubescens, Grevillea species, Acacia species

Tall Strata - Tree, 6.01-12m, Mid-dense. \*Species includes - Eucalyptus brownii, Eucalyptus normantonensis

**Surface Coarse Fragments:** 50-90%, cobbly, 60-200mm, angular, Jasper

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A11 | 0 - 0.07 m    | Dark brown (10YR3/3-Moist); ; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 6.5 (Raupach, 0.03); Clear change to -  |
| A12 | 0.07 - 0.25 m | Brown (10YR4/3-Moist); ; Fine sandy clay loam (Heavy); Massive grade of structure; Earthy fabric; Dry; Very firm consistence; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , Gypseous, , ; Field pH 7 (Raupach, 0.2); Abrupt change to -   |
| B2  | 0.25 - 0.75 m | Yellow (2.5Y7/6-Moist); ; Fine sandy light medium clay; Moderate grade of structure, 20-50 mm; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; , Gypseous, , ; Field pH 9 (Raupach, 0.6); Gradual change to - |
| C   | 0.75 - 1.2 m  | ; , Calcareous, , , Gypseous, , ; Field pH 8.5 (Raupach, 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      |
|-------|-------|---------------------------------------|----------------------|---------|---------|-------------|--------------|----------|-------|----------|
|       |       | dS/m                                  | Ca                   | Mg      | K       | Na          | Acidity      |          |       |          |
| m     |       |                                       |                      |         |         | Cmol (+)/kg |              |          |       | %        |
|       |       |                                       |                      |         |         |             |              |          |       |          |
| Depth | CaCO3 | Organic                               | Avail.               | Total   | Total   | Total       | Bulk         | Particle | Size  | Analysis |
|       | %     | C                                     | P                    | P       | N       | K           | Density      | GV       | CS    | FS       |
| 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