

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 1832                      **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>     | 28/05/93                | <b>Elevation:</b> | No Data |
| <b>Map Ref.:</b>       | Sheet No. : 8255    GPS | <b>Rainfall:</b>  | No Data |
| <b>Northing/Long.:</b> | 7629414 AMG zone: 55    | <b>Runoff:</b>    | No Data |
| <b>Easting/Lat.:</b>   | 481979    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> | Gently undulating rises 9-30m<br>1-3% | <b>Pattern Type:</b>   | Rises           |
| <b>Morph. Type:</b>     | Flat                                  | <b>Relief:</b>         | No Data         |
| <b>Elem. Type:</b>      | Footslope                             | <b>Slope Category:</b> | Gently inclined |
| <b>Slope:</b>           | %                                     | <b>Aspect:</b>         | No Data         |

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

#### Erosion:

#### Soil Classification

|   |                                |              |
|---|--------------------------------|--------------|
| <b>Australian Soil Classification:</b>  | <b>Mapping Unit:</b>           | N/A          |
| Eutrophic Mottled-Subnatric Grey Sodosol Medium Slightly<br>gravelly Clay-loamy Fine Deep | <b>Principal Profile Form:</b> | Dy3.33       |
| <b>ASC Confidence:</b>  | <b>Great Soil Group:</b>       | Solodic soil |

Analytical data are incomplete but reasonable confidence.

**Site Disturbance:** Complete clearing. Pasture, native or improved, but never cultivated

**Vegetation:**    Low Strata - Tussock grass, 0.51-1m, Sparse. \*Species includes - Cenchrus ciliaris  
Mid Strata - , , . \*Species includes - None recorded  
Tall Strata - , , . \*Species includes - None Recorded

**Surface Coarse Fragments:** 0-2%, fine gravelly, 2-6mm, rounded, Quartz

#### Profile Morphology

|     |               |  |
|-----|---------------|--|
| A11 | 0 - 0.08 m    | Dark greyish brown (10YR4/2-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ; Field pH 6.5 (Raupach, 0.05);  |
| A2j | 0.08 - 0.15 m | Greyish brown (10YR5/2-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Firm consistence; , Calcareous, , , , Gypseous, , , ;   |
| B21 | 0.15 - 0.4 m  | Greyish brown (10YR5/2-Moist); ; Sandy medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , , ; Field pH 7.5 (Raupach, 0.35);   |
| B22 | 0.4 - 1.2 m   | Light brownish grey (10YR6/2-Moist); Mottles, 10YR68, 2-10% , 15-30mm, Distinct; Mottles, 2-10% ; Sandy medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Weak consistence; , Calcareous, , , , Gypseous, , , ; Field pH 8.5 (Raupach, 1.2); |

#### 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 | CS    | Size FS | Analysis 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