

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR **Site ID:** 2120 **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>     | 07/10/93             | <b>Elevation:</b> | No Data |
| <b>Map Ref.:</b>       | Sheet No. : 7758 GPS | <b>Rainfall:</b>  | No Data |
| <b>Northing/Long.:</b> | 7818125 AMG zone: 55 | <b>Runoff:</b>    | No Data |
| <b>Easting/Lat.:</b>   | 232384 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> | Level plain <9m <1% | <b>Pattern Type:</b>   | Rises   |
| <b>Morph. Type:</b>     | Flat                | <b>Relief:</b>         | No Data |
| <b>Elem. Type:</b>      | Hillcrest           | <b>Slope Category:</b> | Level   |
| <b>Slope:</b>           | 1 %                 | <b>Aspect:</b>         | No Data |

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

#### Erosion:

#### Soil Classification

|  |  |                                |                         |
|--|--|--------------------------------|-------------------------|
| <b>Australian Soil Classification:</b>                                     |  | <b>Mapping Unit:</b>           | N/A                     |
| Sodic Mesotrophic Yellow Chromosol Thick Non-gravelly<br>Sandy Clayey Deep |  | <b>Principal Profile Form:</b> | Dy3.32                  |
| <b>ASC Confidence:</b>   |  | <b>Great Soil Group:</b>       | Lateritic podzolic soil |
| 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, 0.51-1m, Sparse. \*Species includes - Bothriochloa species, Aristida species  
Mid Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus crebra  
Tall Strata - Tree, 12.01-20m, Sparse. \*Species includes - Eucalyptus crebra

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

#### Profile Morphology

|      |              |   |
|------|--------------|---|
| A11  | 0 - 0.08 m   | Dark greyish brown (10YR4/2-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.05);  |
| A12  | 0.08 - 0.3 m | Brown (10YR5/3-Moist); ; Coarse sand; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.25);   |
| A2e  | 0.3 - 0.45 m | Yellowish brown (10YR5/4-Moist); ; Loamy coarse sand; Massive grade of structure; Earthy fabric; Dry; Very firm consistence; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.4);   |
| B1   | 0.45 - 0.6 m | Light yellowish brown (10YR6/4-Moist); ; Coarse sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very strong consistence; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.5);            |
| B21c | 0.6 - 0.7 m  | Grey (10YR6/1-Moist); Mottles, 10YR58, 10-20% , 5-15mm, Prominent; Mottles, 10-20% ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very strong consistence; , Calcareous, , , , Gypseous, , ; Field pH 7 (Raupach, 0.7); |
| B22  | 0.7 - 1.2 m  | Dark yellowish brown (10YR4/6-Moist); ; Medium heavy clay; , Calcareous, , , , Gypseous, , ;  |

#### 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