

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 2370                      **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>     | 28/10/94                | <b>Elevation:</b> | No Data                 |
| <b>Map Ref.:</b>       | Sheet No. : 7960    GPS | <b>Rainfall:</b>  | No Data                 |
| <b>Northing/Long.:</b> | 7908918 AMG zone: 55    | <b>Runoff:</b>    | Rapid                   |
| <b>Easting/Lat.:</b>   | 306791    Datum: AGD66  | <b>Drainage:</b>  | Moderately well drained |

**Geology**

|                       |         |                                    |                                 |
|-----------------------|---------|------------------------------------|---------------------------------|
| <b>Exposure Type:</b> | No Data | <b>Conf. Sub. is Parent. Mat.:</b> | No Data                         |
| <b>Geol. Ref.:</b>    | No Data | <b>Substrate Material:</b>         | Metamorphic rock (unidentified) |

**Land Form**

|                         |                            |                        |                 |
|-------------------------|----------------------------|------------------------|-----------------|
| <b>Rel/Slope Class:</b> | Rolling rises 9-30m 10-32% | <b>Pattern Type:</b>   | Rises           |
| <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>           | 4 %                        | <b>Aspect:</b>         | No Data         |

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

**Erosion:**

**Soil Classification**

|   |  |                                |                   |
|---|--|--------------------------------|-------------------|
| <b>Australian Soil Classification:</b>                            |  | <b>Mapping Unit:</b>           | N/A               |
| Haplic Mesotrophic Red Chromosol Thick Gravelly Loamy Clayey Deep |  | <b>Principal Profile Form:</b> | Dr2.13            |
| <b>ASC Confidence:</b>  |  | <b>Great Soil Group:</b>       | Red podzolic soil |
| Confidence level not specified                                    |  |                                |                   |

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

**Vegetation:**    Low Strata - Tussock grass, 0.51-1m, Very sparse. \*Species includes - Aristida species, Bothriochloa decipiens  
Mid Strata - Shrub, 1.01-3m, Very sparse. \*Species includes - Unknown species  
Tall Strata - Tree, 6.01-12m, Sparse. \*Species includes - Eucalyptus melanophloia, Eucalyptus erythrophloia

**Surface Coarse Fragments:** 10-20%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified)

**Profile Morphology**

|     |              |  |
|-----|--------------|--|
| A11 | 0 - 0.07 m   | Dark brown (7.5YR3/4-Moist); ; Sandy loam (Light); Massive grade of structure; Sandy (grains prominent) fabric; Dry; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Clear change to -  |
| A12 | 0.07 - 0.3 m | Strong brown (7.5YR4/6-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6.5 (Raupach, 0.2); Abrupt change to -                          |
| B21 | 0.3 - 0.8 m  | Red (2.5YR5/8-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; 20-50%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.5); Gradual change to - |
| B3  | 0.8 - 1 m    | Red (2.5YR5/8-Moist); ; Medium clay; Dry; 50-90%, medium gravelly, 6-20mm, angular, Metamorphic rock (unidentified), coarse fragments; , Calcareous, , , , Gypseous, , ; Field pH 6 (Raupach, 0.9);  |
| C   | 1 - 1.2 m    | Light yellowish brown (10YR6/4-Moist); ; Dry; , Calcareous, , , , Gypseous, , ; Field pH 9 (Raupach, 1.2);   |

**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<br>Cmol (+)/kg    |     |      | %   |
| 0.07 - 0.3 | 5.8A |        | 1.2B | 1.3                  | 0.31 | 0.06                 |     |      |     |
| 0.3 - 0.8  | 5.5A |        |      |                      |      |                      |     |      |     |
| 1 - 1.2    | 8.3A |        |      |                      |      |                      |     |      |     |

[illegible][illegible]

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**Laboratory Analyses Completed for this profile**

|         |  |
|---------|--|
| 15A2_CA | Exchangeable bases (Ca <sup>2+</sup> ,Mg <sup>2+</sup> ,Na <sup>+</sup> ,K <sup>+</sup> ) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts |
| 15A2_K  | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 15A2_MG | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 15A2_NA | Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts   |
| 4A1     | pH of 1:5 soil/water suspension  |