

**Project Name:** Preliminary Assessment and Survey of Land Degradation in the Dalrymple Shire, QLD  
**Project Code:** DLR                      **Site ID:** 170                      **Observation ID:** 1  
**Agency Name:** QLD Department of Primary Industries

#### Site Information

<b>Desc. By:</b>	M. DeCorte	<b>Locality:</b>	
<b>Date Desc.:</b>	21/09/90	<b>Elevation:</b>	560 metres
<b>Map Ref.:</b>	Sheet No. : 7860    GPS	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	7940945 AMG zone: 55	<b>Runoff:</b>	No runoff
<b>Easting/Lat.:</b>	282384    Datum: AGD66	<b>Drainage:</b>	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>	Undisturbed soil core, Basalt

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	1 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):** Cracking, Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
Haplic Self-Mulching Black Vertosol Non-gravelly Medium fine Very fine Deep		<b>Principal Profile Form:</b>	Ug5.14
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	Black earth

All necessary analytical data are available.

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

**Vegetation:** Low Strata - Sedge, <0.25m, Very sparse. \*Species includes - Cyperus species, Cymbopogon species, Dichanthium

Mid Strata - Shrub, 0.51-1m, Isolated plants. \*Species includes - Acacia farnesiana

Tall Strata - , , . \*Species includes - None Recorded

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

#### Profile Morphology

A11	0 - 0.03 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Many, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12	0.03 - 0.3 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Coarse, (10 - 20) mm crack; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Strong consistence; , Calcareous, , , , Gypseous, , , Field pH 6.5 (Raupach, 0.05); Many, very fine (0-1mm) roots; Clear, Smooth change to -
B21	0.3 - 1 m	Very dark greyish brown (2.5Y3/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Strong grade of structure, 2-5 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Many cutans, >50% of ped faces or walls coated; , Calcareous, , , , Gypseous, , , Field pH 7.5 (Raupach, 0.6); Few, very fine (0-1mm) roots; Clear, Smooth change to -
B22	1 - 1.3 m	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Lenticular; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Many cutans, >50% of ped faces or walls coated; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 1.2); Clear, Smooth change to -
C	1.3 - 2 m	; , Calcareous, , , , Gypseous, , , Field pH 8.5 (Raupach, 1.5);

#### Morphological Notes

#### Observation Notes

#### Site Notes

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**Laboratory Test Results:**

[illegible][illegible][illegible]

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**Laboratory Analyses Completed for this profile**

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension