Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:176Observation ID:1Agency Name:QLD Department of Primary Industries

•	•	•	•						
Desc. I Date D Map Ro Northin Easting	esc.: ef.: ng/Long.: g/Lat.:	M. DeCorte 09/10/90 Sheet No. : 7859 GPS	Locality: Elevation: Rainfall: Runoff: Drainage:	Elevation:455 metresRainfall:No DataRunoff:Rapid			d		
<u>Geolo</u> Exposi Geol. F	ureType:	No Data No Data	Conf. Sub. is Parent. Mat.: Substrate Material:		Mat.:	No Data No Data			
Land Rel/Sic Morph Elem. Slope:	ope Class: . Type: Type:	Undulating rises 9-30m 3-10% Mid-slope Hillslope 3 %	Relief:	Slope Category: Very gently slope			i		
<u>Surfac</u>	ce Soil Co	ndition (dry): Hardsetting							
Erosic									
Austra Suprac	alcic Subna	<u>on</u> assification: tric Brown Sodosol Thick Non-grav lerately deep		Mapping Unit: Principal Profile Form:			N/A Dy2.43		
ASC	Confidence		(Great Soi	l Group	:	Solodic soil		
	,	lytical data are available.	4h a.a. awaada a h						
Veget		e: No effective disturbance other	0 0,			ncludes	- Aristida species, Bothriochloa		
decipien		C		•					
		Mid Strata - Tree, 1.01-3m, Ve					·		
striata		Tall Strata - Tree, 6.01-12m, S	sparse. *Species	s includes	- Eucal	yptus cre	ebra, Eucalyptus papuana, Grevillea		
<u>Surfac</u>	ce Coarse	Fragments: 0-2%, medium gra	avelly, 6-20mm,	angular, C	Quartz				
Profile	e Morphol	ogy							
A1	0 - 0.08 n	Dark brown (10YR3/3-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Many, fine (1-2mm) roots; Clear, Smooth change to -					Calcareous, , ; , Gypseous, , ;		
A21	0.08 - 0.2	Many (>5 per 100mm2) Fir gravelly, 6-20mm, rounded	Dark yellowish brown (10YR3/4-Moist); ; Loamy sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Many, fine (1-2mm) roots; Clear, Smooth change to -						
A22c	0.2 - 0.3	Dark yellowish brown (10YR4/4-Moist); ; Sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.25); Common, very fine (0-1mm) roots; Sharp, Tongued change to -							
B21t	0.3 - 0.6 (mm, Columnar; Strong gra (<1 per 100mm2) Very fine 10-50% of ped faces or w mm), Veins; Very few (0 - 2	mm, Columnar; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; , Gypseous, , ; Soil matrix is Moderately calcareous; Field pH 9 (Raupach, 0.5); Few, very fine (0-1mm) roots; Clear,						
B22k	0.6 - 0.88	Dark yellowish brown (10YR4/8-Moist); Substrate influence, 5YR58, 0-2%, 0-5mm, Distinct; Substrate influence, 0-2%; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Dry; Strong consistence; Many (20 - 50 %), Calcareous, Medium (2 -6 mm), Concretions; , Gypseous, , ; Soil matrix is Very highly calcareous; Field pH 9.5 (Raupach, 0.88);							

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC			e Cations		xchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol (+)/	Acidity kg			%
0 - 0.08 0.2 - 0.3	6.2A 6.7A		4.1B	2.3	0.39	0.07				
0.3 - 0.6 0.6 - 0.88	8.9A 9.5A		14.2J	8.5	0.1	3.8		211		18.10
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Parti GV (icle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	one only
0 - 0.08 0.2 - 0.3 0.3 - 0.6 0.6 - 0.88										
Depth	COLE		Grav	imetric/V	olumetric \	Nater Conte	ents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0.08 0.2 - 0.3 0.3 - 0.6 0.6 - 0.88										

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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
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