Projec	ct Name: ct Code:	Preliminary Assessment DLR Site ID:	T519	and Degrada Observatio				
•	cy Name:	QLD Department of Prima	ary Industries					
Desc.	nformation	n.G. Cannon	Locality:					
Date D Map R	esc.: ef.: ng/Long.:	05/12/91 Sheet No. : 8257 GPS 7769968 AMG zone: 55 449382 Datum: AGD66	Elevation: Rainfall: Runoff: Drainage:	No Data Slow				
<u>Geolo</u>	o <u>qv</u> ureType:	No Data O-Dr	Conf. Sub. is F Substrate Mate	Parent. Mat.:				
Land Rel/Sid	Form ope Class:	Gently undulating plains <9m 3%	1- Pattern Type:	Plain				
Morph Elem. Slope:		Crest Plain 2 %	Relief: Slope Categor Aspect:	No Data r y: Level 320 degre	ees			
Surfac	ce Soil Co	ndition (dry): Hardsetting						
Erosio								
Haplic		assification: ack Dermosol Thin Non-gravelly		apping Unit: incipal Profile		N/A Dd2.13		
ASC C	Confidence:		Gr	eat Soil Group):	Non-calcic brown soil		
Site D	isturbanc	e: No effective disturbance othe	r than grazing by h	oofed animals				
Veget		Low Strata - Tussock grass,	0.26-0.5m, Mid-der	nse. *Species in	ncludes - E	Bothriochloa pertusa, Bothriochloa	a	
ewartian	ia,		id Otrata Traca 2.0		*0	includes . Eventue and have been		
Eucalyp	tus crebra	Chrysopogon fallax M	lo Strata - Tree, 3.0	71-6m, Sparse.	Species	includes - Eucalyptus erythrophlo	ia,	
Surfac	ce Coarse	Tall Strata - Tree, 6.01-12m, Fragments: No surface coars	• •	ncludes - Eucal	yptus eryt	throphloia, Eucalyptus crebra		
Profile	e Morphol	oav	-					
A11	0 - 0.02 m		ery weak consistend	ce; , Calcareous	s, , ; , Gyp	oseous, , ; Field pH 6.5		
A/B	0.02 - 0.1	Subangular blocky; Mode Dry; Very strong consiste	Dark brown (7.5YR3/2-Moist); ; Fine sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Dry; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.07); Many, very fine (0-1mm) roots; Clear, Wavy change to -					
B21	 0.1 - 0.25 m Dark brown (7.5YR3/2-Moist); Mottles, 5YR46, 2-10%, 0-5mm, Distinct; Mottles, 2-10%; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Dry; Very strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.18); Common, very fine (0-1mm) roots; Clear, Wavy change to - 							
B22	0.25 - 0.3	Moderately moist; Very fi	Dark red (2.5YR3/6-Moist); ; Light clay; Massive grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 0.3); Common, very fine (0-1mm) roots; Abrupt, Wavy change to -					
BC	0.38 - 0.5	Firm consistence; 2-10%, fragments; , Calcareous,	; Weak grade of structure, 50-100 mm, Angular blocky; Sandy (grains prominent) fabric; Dry; Firm consistence; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 0.5); Few, very fine (0-1mm) roots; Gradual, Wavy change to -					
С	0.58 - 1 m	; Sandy (grains prominent) fabric; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, angular, dispersed, Granodiorite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 0.8);						

Morphological Notes

Observation Notes DLR1025; A11 HORIZON IS SURFACE WASH/OTHER GRASSES HECO1.

Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T519Observation ID:1Agency Name:QLD Department of Primary Industries

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T519 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: T519 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol	Acidity (+)/kg			%
0 - 0.02	6.67A	0.04A	5.3B 5.99J	3 2.74	0.87 0.32	0.13 0.02		7.21		1.81 0.28
0.02 - 0.1	6.92A	0.04A	11B 11.3J	5.3 4.64	0.8 0.23	0.18 0.03		17.11		1.05 0.18
0.1 - 0.25 0.25 - 0.38	7.14A 7.41A	0.03A 0.02A	16.7J	6.71	0.06	0.05		18.9D 26I		0.26 0.19
0.38 - 0.58 0.58 - 1	7.86A 8.1A	0.02A 0.02A	17B 7.46J	0.45 2.38	0.45 0.05	0.42 0.04		8.71		0.46

Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	P GV	article CS	Size FS %	-	s Clay
0 - 0.02		1.8B		0.023A	0.07A	0.808A			50A	33	5	12
0.02 - 0.1	0.1A	0.6A 1.7B		0.025A	0.07A	0.964A			37A	28	-	26
0.1 - 0.25 0.25 - 0.38									29A	23	10	38
0.38 - 0.58 0.58 - 1									65A	21	5	9
Depth	COLE			imetric/Volu			-	_	Ks	at	K unsa	t
m		Sat.	0.05 Bar).5 Bar 1 ∙ m3/m3	Bar 5	Bar 15	Bar	mm	/h	mm/h	

0 - 0.02 0.02 - 0.1 0.02 - 0.1 0.1 - 0.25 0.25 - 0.38 0.38 - 0.58 0.58 - 1

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Laboratory Analyses Completed for this profile

-	
10A1	Total sulfur - X-ray fluorescence
10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
12A1_MN	DTPA - extractable copper, zinc, manganese and iron
12A1_ZN	DTPA - extractable copper, zinc, manganese and iron
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
15D2_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor
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)
17A1	Total potassium - X-ray fluorescence
19A1	Carbonates - rapid titration
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1	Organic carbon - Walkley and Black
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl, automated colour
9A1	Total phosphorus - X-ray fluorescence
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method