Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T528Observation ID:1Agency Name:QLD Department of Primary Industries

Site	Infor	mation

Desc. E Date De Map Re	esc.: ef.: ng/Long.: ŋ/Lat.:	M.G. (10/12/ Sheet 77217	Cannon 91 No. : 8256 GPS 00 AMG zone: 55 7 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		260 metre No Data Very slow Rapidly d						
Geol. R		No Da Tu	ata	Conf. Sub. is Parent. Mat.: Substrate Material:			No Data Undistu	a rbed soil core, No Data				
Morph. Elem. 1 Slope:	pe Class: Type: ype:	Flat Plain 1 %	ating plains <9m 3-10%	Pattern Typ Relief: Slope Cate Aspect:	No Data							
		nditio	n (dry): Loose									
<u>Erosio</u> Soil Cl	assificati	on										
Austral Haplic [ian Soil Cl	assific Red Ka	ation: andosol Medium Non-gravelly	Sandy		ng Unit: bal Profile	Form:	N/A Gn2.15				
ASC C	onfidence	:			Great	Soil Group	:	Red earth				
,			plete but reasonable confider effective disturbance other th		w hoofe	d animals						
Vegeta				0 0			des - Aris	stida species, Phynchelytrum repens,				
		Ch						*Species includes - Acacia torulosa,				
renninai	ia oblongat	a										
		Frag	ll Strata - Tree, 6.01-12m, Iso <u>ments:</u> No surface coarse fi	•	*Specie	es includes	- Eucaly	ptus polycarpa				
A11	Morphol 0 - 0.07 m		Very dark greyish brown (10	VP3/2-Moiet) Loan	ny sand: Si	nalo ara	in grade of structure.				
	0 0.07 11	ļ	Sandy (grains prominent) fabric; Dry; Loose consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.05); Common, fine (1-2mm) roots; Gradual change to -									
A12	0.07 - 0.1	8 m	Dark brown (10YR3/3-Moist); ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.15); Common, fine (1-2mm) roots; Gradual change to -									
A21	0.18 - 0.3	6 m	Brown (7.5YR5/3-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.3); Few, very fine (0-1mm) roots; Diffuse change to -									
A22	0.36 - 0.5	4 m	Reddish brown (5YR5/4-Moi prominent) fabric; Dry; Loose Quartz, coarse fragments; , fine (0-1mm) roots; Gradua	e consistence Calcareous,	e; 0-2%, , ; , Gyp	, fine grave	lly, 2-6m	m, subrounded, dispersed,				
B11	0.54 - 0.6	4 m	Red (10R4/6-Moist); ; Clayer Weak consistence; 0-2%, fin fragments; , Calcareous, , ; , roots; Diffuse change to -	e gravelly, 2	-6mm, s	ubrounded	, dispers	sed, Quartz, coarse				
B12	0.64 - 0.8	m	Red (10R4/8-Moist); ; Coars consistence; 2-10%, fine gra Calcareous, , ; , Gypseous, , change to -	velly, 2-6mm	n, subro	unded, disp	ersed, C	Quartz, coarse fragments; ,				
B12	0.8 - 1.1 r	n	Red (10R4/8-Moist); ; Coars consistence; 2-10%, fine gra Calcareous, , ; , Gypseous, , change to -	velly, 2-6mm	n, subro	unded, disp	ersed, C	Quartz, coarse fragments; ,				

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B21 1.1 - 1.4 m Red (10R4/6-Moist); ; Coarse sandy clay loam (Light); Massive grade of structure; Earthy fabric; Dry; Firm consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 1.3); Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes DLR1034 Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T528 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: T528 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wg	n	Cmol				%
0 - 0.07	6.04A	0.05A	2.3B 2.04J	0.66 0.62	0.2 0.06	0.05 0.02		2.91		1.72 0.69
0.07 - 0.18 0.18 - 0.36	6.32A 6.58A	0.02A 0.01A								
0.36 - 0.54	6.57A	0.01A	0.67B 0.47J	0.28 0.12	0.12	0.04 0.02		0.21		20.00 10.00
0.64 - 0.8 0.8 - 1.1	6.66A 6.32A	0.01A 0.01A								
1.1 - 1.4	6.39A	0.01A	0.98J	0.47	0.02	0.02		2.7D 2.3I		0.74 0.87

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 %	Analysis Silt	s Clay
0 - 0.07 0.07 - 0.18 0.18 - 0.36		1.3B		0.012A	0.02A	0.058A			79A	14	3	3
0.36 - 0.54 0.64 - 0.8		0.1B		0.009A	0.01A	0.048A			77A	17	2	3
0.8 - 1.1 1.1 - 1.4									63A	17	3	17
Depth	COLE		Gravi	metric/Volu	metric Wate	er Content	s		Ks	at	K unsa	t

Deptil	COLL	Gravimetric/volumetric water contents								r unsat	
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar			
m				g/	/g - m3/m3	3			mm/h	mm/h	

0 - 0.07 0 - 0.07 0.07 - 0.18 0.18 - 0.36 0.36 - 0.54 0.64 - 0.8 0.8 - 1.1 1.1 - 1.4

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Laboratory Analyses Completed for this profile

12A1_MN DTPA - extractable copper, zinc, manganese and iron	r
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 fo soluble salts	
15A2_KExchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts15A2_MGExchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts15A2_NAExchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts15D2_CCMammonium chloride at pH 7.0, pretreatment for soluble salts	
15D2_CECCEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor15F1_CAExchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts15F1_KExchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts	
15F1_MGExchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts15F1_NAExchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts15F3CEC by 0.01M silver-thiourea (AgTU)+	
15N1 Exchangeable sodium percentage (ESP) 17A1 Total potassium - X-ray fluorescence 3A1 EC of 1:5 soil/water extract	
4A1pH of 1:5 soil/water suspension6B2Total 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	