Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T590Observation ID:1Agency Name:QLD Department of Primary Industries

Desc. E Date D Map Re Northir Easting Geolo	esc.: 1 ef.: S ng/Long.: 7 g/Lat.: 3 <u>gV</u>	M.G. Cannon 17/08/93 Sheet No. : 8056 GPS 7718425 AMG zone: 55 383486 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	294 metre No Data No Data No Data							
Geol. F	Ref.:	No Data No Data	Conf. Sub. is Pare Substrate Materia		No Data No Data						
Morph. Elem. 1 Slope:	ppe Class: . Type: Type:	No Data Flat No Data 1 % Idition (dry): Hardsetting	Pattern Type: Relief: Slope Category: Aspect:	Plain No Data No Data No Data							
<u>Erosic</u> Soil C	<u>on:</u> Iassificatio	<u>on</u>									
Ferric E	lian Soil Cla Eutrophic Yell Clay-loamy [low Kandosol Medium Non-gravel		ing Unit: ipal Profile	Form:	N/A Gn2.22					
	confidence: cessary analy	rtical data are available.	Great	Soil Group):	Yellow earth					
	, ,	: No effective disturbance other t	than grazing by hoof	ed animals							
Vegeta	Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - None recorded										
<u>Surfac</u>	ce Coarse I	Fragments: No surface coarse			plus mei	anophiola, Eucarypius papuana					
Profile Morphology											
A1	A10 - 0.04 mVery dark greyish brown (10YR3/2-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.5 (Raupach, 0.03); Few, fine (1-2mm) roots; Clear change to -										
A3	0.04 - 0.2 r	fabric; Dry; Weak consisten	Dark yellowish brown (10YR4/4-Moist); ; Sandy loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.2 (Raupach, 0.1); Few, fine (1-2mm) roots; Gradual change to -								
B1	0.2 - 0.42 r	fabric; Dry; Weak consisten	Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 5.2 (Raupach, 0.3); Few, fine (1-2mm) roots; Gradual change to -								
B21	0.42 - 0.81	0.81 m Brownish yellow (10YR6/8-Moist); ; Clay loam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 5.2 (Raupach, 0.7); Few, fine (1-2mm) roots; Gradual change to -									
B22	0.81 - 1 m	fabric; Dry; Weak consisten coarse fragments; Few (2 -	Brownish yellow (10YR6/6-Moist); ; Clay Ioam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 2-10%, fine gravelly, 2-6mm, rounded, dispersed, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.9); Few, very fine (0-1mm) roots; Gradual								
B23c	1 - 1.66 m	Weak consistence; 10-20% fragments; Very many (50 - Calcareous, , ; , Gypseous,	Light grey (10YR7/2-Moist); ; Clay Ioam, sandy; Massive grade of structure; Earthy fabric; Dry; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded, dispersed, Quartz, coarse fragments; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 1.4); Field pH 7.5 (Raupach, 1.65); Few, very fine (0-1mm) roots; Abrupt change to -								
D1	1.66 - 1.74	consistence; Many (20 - 50	White (10YR8/2-Moist); ; Sand; Single grain grade of structure; Smooth-ped fabric; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Concretions; , Calcareous, , ; , Gypseous, , ; Common, fine (1-2mm) roots; Gradual change to -								

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- 1.74 1.8 m Grey (10YR6/1-Moist); Mottles, 2.5Y56, 10-20%, 5-15mm, Prominent; Mottles, 5YR46, 10-20%; Moderate grade of structure, 5-10 mm, Platy; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Thin ironpan, Very strongly cemented, Continuous, Massive; Field pH 7.5 (Raupach, 1.78); Gradual change to -
- 1.8 1.92 m Light brownish grey (10YR6/2-Moist); ; Moderate grade of structure, 5-10 mm, Platy; Very strong consistence; , Calcareous, , ; , Gypseous, , ; Thin ironpan, Very strongly cemented, Continuous, Massive; Field pH 8 (Raupach, 1.9);

Morphological Notes

Observation Notes Kaylene Site 23 Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: T590 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: T590 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Exchang Na Acid		CEC	ECEC	ESP
m		dS/m	U	mg		Cmol (+)/kg	,			%
0 - 0.04	4.5C 6.4A	0.04A	1.2B	0.64	0.32	0.04				
0.04 - 0.2	4.2C 6.2A	0.04A								
0.2 - 0.42	4.3C 6.3A	0.03A								
0.42 - 0.81	4.5C 6.4A	0.03A	18B	11	0.55	1.5				
0.81 - 1	5.4C 6.5A	0.03A								
1 - 1.66	5.7C 6.6A	0.04A								
1.66 - 1.74	5.8C 6.8A	0.03A								
1.74 - 1.8	6C 8.1A	0.06A	1.4B	3.8	0.44	1.1				
1.8 - 1.92	6.3C 7.7A	0.24A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	P GV	article CS	FS	Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.04 0.04 - 0.2 0.2 - 0.42		0.88A		0.017A	0.03A	0.24A			52A	30	4	14
0.42 - 0.81 0.81 - 1 1 - 1.66 1.66 - 1.74 1.74 - 1.8		0.24A		0.013A	0.01A	0.3A			45A	28	2	25
1.8 - 1.92				0.013A		0.97A			69A	17	10	4
Depth	COLE	Sat.		0.1 Bar 0			ts 5 Bar 15 I	Bar	K sa		K unsa	t
m				g/g -	m3/m3				mm	/n	mm/h	

0 - 0.04 0.04 - 0.2 0.2 - 0.42 0.42 - 0.81 0.81 - 1 1 - 1.66 1.66 - 1.74 1.74 - 1.8 1.8 - 1.92

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Laboratory Analyses Completed for this profile

10A1Total sulfur - X-ray fluorescence10BExtractable sulfur(mg/kg) - Phosphate extractable sulfur12A1_CUDTPA - extractable copper, zinc, manganese and iron12A1_FEDTPA - extractable copper, zinc, manganese and iron12A1_MNDTPA - extractable copper, zinc, manganese and iron12A1_ZNDTPA - extractable copper, zinc, manganese and iron12A1_ZNDTPA - extractable copper, zinc, manganese and iron15A2_CAExchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatmen soluble salts	nt for
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	
17A1 Total potassium - X-ray fluorescence	
3A1 EC of 1:5 soil/water extract	
4A1 pH of 1:5 soil/water suspension	
4B2 pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1	
5A1 Chloride - 1:5 soil/water extract, potentiometric titration	
6A1 Organic carbon - Walkley and Black	
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	