Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T511Observation ID:1Agency Name:QLD Department of Primary Industries						
Site Informatio Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	M.G. Cannon 04/12/91 Sheet No. : 8258 GPS	Locality: Elevation: Rainfall: Runoff: Drainage:	325 metre No Data Rapid Moderatel		ined	
<u>Geology</u> ExposureType: Geol. Ref.:	No Data Odr	Conf. Sub. is Pare Substrate Materia			bed soil core, 0.3 m deep,0.06-2mm htly porous, , Granodiorite	
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope:	Undulating plains <9m 3-10% Upper-slope Hillslope 4 %	Pattern Type: Relief: Slope Category: Aspect:	Plain No Data Gently inc 300 degre			
Surface Soil Co						
Erosion: 2 m2 Soil Classificat						
Australian Soil C Haplic Eutrophic E loamy Clayey Ver		ing Unit: pal Profile I		N/A Db1.12		
ASC Confidence		Great	Soil Group	:	Non-calcic brown	
All necessary analytical data are available. soil Site Disturbance: No effective disturbance other than grazing by hoofed animals						
Vegetation: Low Strata - Tussock grass, <0.25m, Sparse. *Species includes - Bothriochloa pertusa						
Mid Strata - , , . *Species includes - None recorded Tall Strata - Tree, 6.01-12m, Sparse. *Species includes - Eucalyptus erythrophloia, Eucalyptus crebra						
Surface Coarse Fragments: No surface coarse fragments						
Profile Morphology						
A1 0 - 0.02 m Dark brown (7.5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Earthy fabric; Dry; Very weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.02); Abrupt, Smooth change to -						
B2 0.02 - 0.15 m Dark brown (7.5YR3/3-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.1);						
BC 0.15 - 0.	Dark brown (7.5YR3/4-Moist); ; Clay loam, sandy; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, 6- 20mm, angular, dispersed, Substrate material, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.2);			%, medium gravelly, 6-		
C1 0.3 - 0.6		; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Granite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.5);				
C2 0.6 - 1 m		; 20-50%, medium gravelly, 6-20mm, angular, dispersed, Granite, coarse fragments; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.8);				
Morphological	Notes					

Observation Notes DLR1017; NOT ENOUGH MATERIAL FOR SAMPLE T511.1.

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	Exchangeable Acidity	CEC		ECEC	E	SP
m		dS/m	Ga	ng	N	Cmol (+)						%
0.02 - 0.15	6.78A	0.14A	13B 12.5J	4.6 3.61	0.71 0.21	0.18 0.04		15D 18.3I			C	.20).98).27).22
0.15 - 0.3 0.3 - 0.6 0.6 - 1	7.06A 7.23A 6.83A	0.02A 0.01A 0.01A	15B 11.7J	4.3 2.49	0.38 0.03	0.43 0.02		14.41			C).14
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3		ticle CS	Size FS %	Analysis Silt	
0.02 - 0.15 0.15 - 0.3 0.3 - 0.6 0.6 - 1	0.1A	0.9B		0.068A	. 0.04	4A 1.38	A		29A 64A	32 16	12 8	28 11
Depth m 0.02 - 0.15	COLE	Sat.	Grav 0.05 Bar	0.1 Bar	blumetric V 0.5 Bar g - m3/m	Vater Cont 1 Bar 3	tents 5 Bar 15 E	Bar	K sa mm,		K unsat mm/h	:
0.02 0.15												

0.02 - 0.13 0.15 - 0.3 0.3 - 0.6 0.6 - 1

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Laboratory Analyses Completed for this profile

10A1 10B 12A1_CU 12A1_FE 12A1_MN 12A1_ZN 15A2_CA	Total sulfur - X-ray fluorescence Extractable sulfur(mg/kg) - Phosphate extractable sulfur DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron DTPA - extractable copper, zinc, manganese and iron Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K 15A2_MG 15A2_NA 15D2_CEC 15F1_CA 15F1_K 15F1_MG 15F1_NA 15F3 15N1 17A1 19A1 3A1 4A1 5A1 6B2 7A2 9A1 P10_CF_C P10_CF_CS P10_CF_S	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; automatic extractor Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts CEC by 0.01M silver-thiourea (AgTU)+ Exchangeable sodium percentage (ESP) Total potassium - X-ray fluorescence Carbonates - rapid titration EC of 1:5 soil/water extract pH of 1:5 soil/water extract, potentiometric titration Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total phosphorus - X-ray fluorescence Clay (%) - Coventry and Fett pipette method Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method