Project Name:	Preliminary Ass	sessment a	nd Surve	y of Land Degradation in the Dalrypmle Shire, QLD)
Project Code:	DLR	Site ID:	1603	Observation ID: 1	
Agency Name:	QLD Departmer	nt of Prima	ry Industr	ries	

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Desc. E Date De Map Re	esc.: ef.: ng/Long.:	Roger 02/02/ Sheet 78404	rs, Gary /93 t No. : 8058 GPS 464 AMG zone: 55 52 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		No Data No Data Very slow Imperfect		d	
<u>Geolo</u> Exposi Geol. R	ureType:	No Da No Da		Conf. Sub. Substrate M			No Data No Data		
<u>Land I</u> Rel/Slo	Form ope Class:	Gentl 1-3%	ly undulating rises 9-30m	Pattern Typ	pe:	Plain			
Morph. Elem. 1 Slope:		Flat Plain 1 %		Relief: Slope Cate Aspect:	gory:	No Data Level No Data			
•	e Soil Co	nditic	on (dry): Hardsetting, Surfa	•					
Erosic			naruseung, oun						
Epicalc		hypers	cation: odic Epipedal Grey Vertosol S ry fine Very deep	Slightly		ng Unit: al Profile	Form:	N/A Ug5.28	
All nec	•	lytical o	data are available.			Soil Group):	Grey clay	
Site D	isturbanc	<u>e:</u> No	effective disturbance other th	nan grazing b	by hoofed	d animals			
Vegeta		Lo	w Strata - Tussock grass, 0.2	6-0.5m, Spa	rse. *Spe	ecies inclu	des - Cy	perus species, Dichanthi	ium species,
Digitaria									
		sp	ecies Mid Strata - , , .	. *Species in	cludes -	None reco	orded		
		Та	all Strata - Tree, 6.01-12m, Sp	arse *Sneci	es includ	les - Fucal	lvotus bra	ownii. Eucalvotus papuai	na
Surfac	e Coarse		ments: 0-2%, fine gravelly,	•			iypius bit		Πά
	e Morphol		<u></u>	_ o, ag.	,				
A1	0 - 0.05 n		Dark grey (10YR4/1-Moist); blocky; Moderate grade of st 2-10%, fine gravelly, 2-6mm Gypseous, , ; Field pH 6 (Ra	tructure, <2 r , subrounded	mm, Poly d, Quartz	/hedral; M z, coarse fi	oderately ragments	/ moist; Strong consisten s; , Calcareous, , ; ,	
B21	0.05 - 0.1	17 m	Grey (5Y5/1-Moist); ; Mediur Moderately moist; Strong co fragments; , Calcareous, , ; , roots; Gradual change to -	nsistence; 2-	-10%, fin	e gravelly	, 2-6mm,	subrounded, Quartz, co	arse
B22	0.17 - 0.4	l5 m	Dark grey (5Y4/1-Moist); ; Li Subangular blocky; Moderati consistence; 2-10%, fine gra <10% of ped faces or walls of Moderately calcareous; Field change to -	e grade of st velly, 2-6mm coated, faint;	ructure, n, subrou , Calcar	Lenticular; unded, Qua eous, , ; ,	; Modera artz, coa Gypseou	tely moist; Strong rse fragments; Few cutai is, , ; Soil matrix is	ns,
B23	0.45 - 0.7	′5 m	Dark grey (5Y4/1-Moist); ; M blocky; Weak grade of struct 10%, fine gravelly, 2-6mm, s faces or walls coated, faint; V Calcareous, , ; , Gypseous, , change to -	ture, Lenticul subrounded, Very few (0 -	lar, Śmo Quartz, o 2 %), M	oth-ped fa coarse frag anganifero	bric; Mois gments; I bus, Med	st; Strong consistence; 2 Few cutans, <10% of peo lium (2 -6 mm), Nodules;	<u>e</u> - d
B24	0.75 - 1.0)5 m	Dark grey (5Y4/1-Moist); ; M blocky; Weak grade of struct 10%, fine gravelly, 2-6mm, s faces or walls coated, faint; , change to -	ture, Lenticul subrounded,	lar; Śmo Quartz, o	oth-ped fai	bric; Moi: gments; I	st; Strong consistence; 2 Few cutans, <10% of peo	2- d

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B25	1.05 - 1.4 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; Moderate grade of structure, 20-50 mm, Lenticular; Smooth-ped fabric; Moist; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, distinct; , Calcareous, , ; , Gypseous, , ; Field pH 8.5 (Raupach, 1.3); Diffuse change to -
B26	1.4 - 1.7 m	Greyish brown (2.5Y5/2-Moist); ; Medium heavy clay; 20-50 mm, Angular blocky; Smooth-ped fabric; Moist; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 8 (Raupach, 1.6); Diffuse change to -
	1.7 - 2 m	Olive grey (5Y5/2-Moist); Mottles, 5Y51, 10-20% , 15-30mm, Faint; Mottles, 10-20% ; Medium heavy clay; 20-50 mm, Angular blocky; Smooth-ped fabric; Strong consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 2);
Marph	alogical Note	

Morphological Notes Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDDLRSite ID:1603Observation ID:1 Project Name: Project Code: Agency Name: DLR Site ID: 1603 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca		le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Mg	n		(+)/kg			%
0 - 0.05 0.05 - 0.17	6.6A 5.8C 7A	0.25A 0.16A	6.6E	6.2	1	0.81		23B		3.52
0.17 - 0.45 0.45 - 0.75	8.5A 7.4C 7.3A	0.27A 0.37A	11E	7.6	0.49	3		26B		11.54
0.75 - 1.05 1.05 - 1.4	8A 7.4C 7.8A	0.77A 1A	8.8E	6.8	0.22	5.2		23B		22.61
1.4 - 1.7	7.3C 7.8A	1A	8E					25B		
1.7 - 2	7C 7.7A	1A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	article CS	Size FS	Analysi	s Clay
m	%	%	mg/kg	Р %	N %	к %	Mg/m3	Gv	63	гэ %	SIIT	Clay
0 - 0.05		1.5A		0.03A	0.09A	0.7A			11A	19	14	57
0.05 - 0.17 0.17 - 0.45 0.45 - 0.75		0.57A		0.017A	0.04A 0.03A	0.61A			4A	9	8	80
0.45 - 0.75 0.75 - 1.05 1.05 - 1.4		1.9A		0.015A		0.61A			7A	11	10	72
1.4 - 1.7 1.7 - 2									4A	10	9	77

Depth	COLE		Grav	vimetric/V	olumetric W	Vater Cont	ents		K sat	K unsat	
		Sat.	0.05 Bar			1 Bar	5 Bar	15 Bar			
m				g/	/g - m3/m3	3			mm/h	mm/h	

0 - 0.05 0.05 - 0.17 0.17 - 0.45 0.45 - 0.75 0.75 - 1.05 1.05 - 1.4 1.4 - 1.7 1.7 - 2

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Laboratory Analyses Completed for this profile

<u>Laboratory</u> Ana	ryses completed for this prome
10A1 10B	Total sulfur - X-ray fluorescence 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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
1.10_01_2	