Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:T536Observation ID:1Agency Name:QLD Department of Primary Industries

Agency Name:	QLD De
Site Information	

Desc. E Date De Map Re Northin Easting <u>Geolog</u>	esc.: og/Long.: g/Lat.: <u>gV</u> ureType: ef.:	M.G. 11/12 Sheet 77274	t No. : 8156 GPS 422 AMG zone: 55 29 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. Substrate M				
	pe Class: Type:	Level Flat Plain <1 %		Pattern Typ Relief: Slope Cate Aspect:		Alluvial p No Data Level No Data	lain	
<u>Surfac</u>	e Soil Co	onditio	on (dry):					
<u>Erosio</u>	n:							
<u>Soil Cl</u>	assificati	ion						
Hyperca	ian Soil Cl alcic Subna ayey Very c	atric Br	cation: own Sodosol Medium Non-gr	avelly		ng Unit: bal Profile	Form:	N/A Dy2.43
ASC C	onfidence	:			Great	Soil Group) :	Solodic soil
			data are available.					
			effective disturbance other t				tido opos	ica. Charabalua anasiaa
Vegeta	ation:		ow Strata - , , . *Species inclue id Strata - Tree, 1.01-3m, Spa					
			all Strata - Tree, 6.01-12m, Sp	•			•	
<u>Surfac</u>	e Coarse	Frag	ments: No surface coarse	fragments				
Profile	Morphol	ogy						
A11	0 - 0.02 n		Dark greyish brown (10YR4 Dry; Very weak consistence Common, fine (1-2mm) root	; , Calcareou	s, , ; , G	ypseous, ,		
A2e	0.02 - 0.1	18 m	Dark grey (10YR4/1-Moist); consistence; , Calcareous, , roots; Abrupt, Wavy change	;, Gypseous				
B21	0.18 - 0.3	34 m	Dark grey (10YR4/1-Moist); Columnar; Moderate grade Very strong consistence; , C very fine (0-1mm) roots; Gra	of structure, 1 Calcareous, ,	10-20 m , Gyps	m, Subang	jular bloc	ky; Smooth-ped fabric; Dry;
B22	0.34 - 0.6	64 m	Yellowish brown (10YR5/4- Subangular blocky; Strong (Dry; Strong consistence; , C fine (0-1mm) roots; Diffuse	grade of struc Calcareous, , ;	ture, 5-	10 mm, Šu	bangular	blocky; Smooth-ped fabric;
B23	0.64 - 0.9	∮m	Brown (10YR5/3-Moist); ; Li Strong grade of structure, 5 consistence; 2-10%, mediur fragments; Few cutans, <10 Manganiferous, Coarse (6 - (Raupach, 0.8);	-10 mm, Suba m gravelly, 6- 0% of ped fac	angular 20mm, s es or wa	blocky; Sm subrounde alls coated,	nooth-peo d, dispers , promine	d fabric; Dry; Štrong sed, Quartz, coarse nt; Very few (0 - 2 %),
B23	0.9 - 1.1	m	Dark yellowish brown (10YF Subangular blocky; Strong g Dry; Very firm consistence; Few (2 - 10 %), Manganifer Field pH 8.5 (Raupach, 1);	grade of struc Common cuta	ture, 5- ans, 10-	10 mm, Su 50% of pe	bangular d faces o	blocky; Smooth-ped fabric; r walls coated, prominent;

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B23	1.1 - 1.43 m	Dark yellowish brown (10YR4/4-Moist); ; Light medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; , Calcareous, , ; , Gypseous, , ; Field pH 9.5 (Raupach, 1.25); Diffuse change to -
B24k	1.43 - 1.8 m	Pale brown (10YR6/3-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Strong consistence; Common cutans, 10-50% of ped faces or walls coated, prominent; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; , Gypseous, , ; Field pH 9.9 (Raupach, 1.6);

Morphological Notes

Observation Notes DLR1042;B HORIZON DISPERSES IN WATER./OTHER Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeab	le Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	К	Na Cmol	Acidity (+)/kg			%
0 - 0.02	5.88A	0.13A	3.8B	1.6	1.4	0.44		7.6l		5.79
			4.36J	1.32	0.34	0.06				0.79
0.02 - 0.18	5.98A	0.04A	2B	1.2	0.97	0.57		5.7I		10.00
			2.07J	1.18	0.18	0.24				4.21
0.18 - 0.34	6.83A	0.24A	3.65J	2.58	0.08	0.9		10.4D		8.65
								8.5l		10.59
0.34 - 0.64	8.65A	0.42A								
0.64 - 0.9	9.55A	0.52A	8.99J	3.2	0.14	1.85		12.31		15.04
0.9 - 1.1	9.32A	0.63A								
1.1 - 1.43	9.23A	0.53A								
1.43 - 1.8	9.45A	0.52A	6.65J	3.96	0.16	3.74		16.8l		22.26

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 %	Analysi Silt	s Clay
0 - 0.02		1.8B		0.029A	0.1A	2.26A			7A	59	20	14
0.02 - 0.18		0.6B		0.023A	0.03A	2.38A			7A	63	18	12
0.18 - 0.34		0.4B		0.0227	0.00/1	2.00/1			6A	50	15	28
0.34 - 0.64 0.64 - 0.9 0.9 - 1.1									8A	51	14	28
1.1 - 1.43 1.43 - 1.8									5A	42	20	32
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 - 0.18 0.18 - 0.34 0.34 - 0.64 0.64 - 0.9 0.9 - 1.1 1.1 - 1.43 1.43 - 1.8

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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	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 15D2 CEC	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
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
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1 6B2	Chloride - 1:5 soil/water extract, potentiometric titration 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