Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID: 257Observation ID: 1Agency Name:QLD Department of Primary Industries

Site In	formation								
Desc. E Date De Map Re	By: esc.: ef.: ng/Long.:	M. De 16/05 Sheet 77907	Corte /91 t No. : 8158 GPS 750 AMG zone: 55 96 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		240 metres No Data No runoff Rapidly drained			
<u>Geolo</u> Exposi Geol. R	ireType:	No Da No D		Conf. Sub. Substrate M	nt. Mat.: No Data				
Rel/Slo Morph.	Morph. Type: Flat Elem. Type: Terrad		plain <9m <1% ce flat	Pattern Type: Relief: Slope Category Aspect:		No Data			
•	e Soil Co	nditic	on (dry): Hardsetting	•		0			
<u>Erosic</u> Soil C	o <u>n:</u> Iassificati	<u>on</u>							
Haplic I	lian Soil Cl Eutrophic B amy Very de	rown E	cation: Dermosol Thick Non-gravelly \$	Sandy		ng Unit: bal Profile	Form:	N/A Gn3.25	
ASC C	onfidence:				Great	Soil Group) :	No suitable	
			vailable but confidence is fair. tensive clearing, for example		naharkir	na			
Vegeta					-	-	ncludes -	Bothriochloa pertusa, Chloris gayana,	
Chloris		sn	ecies Mid Strata - Sh	urub 1.01-3m	n Isolate	ed clumps	*Species	s includes - Acacia farnesiana	
		·		,			•		
Surfac	e Coarse		all Strata - Tree, 12.01-20m, V ments:	'ery sparse. *	Species	s includes -	- Eucalyp	otus tessellaris	
-	Morphol		<u>monto.</u>						
A11	0 - 0.1 m								
A12	0.1 - 0.3 r	n	Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Medium (2-5mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6 (Raupach, 0.3); Common, very fine (0-1mm) roots; Clear, Smooth change to -						
A3	0.3 - 0.43	m	Dark brown (10YR3/3-Moist); ; Loamy fine sand; Massive grade of structure; Earthy fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Common, very fine (0-1mm) roots; Gradual, Smooth change to -						
B1	0.43 - 0.7	2 m	Brown (10YR4/3-Moist); ; Fine sandy loam; Weak grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 6.5 (Raupach, 0.6); Common, very fine (0-1mm) roots; Gradual, Smooth change to -						
B21	0.72 - 1.1	 Dark brown (7.5YR3/3-Moist); ; Fine sandy loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7 (Raupach, 0.9); Few, very fine (0-1mm) roots; Clear, Smooth change to - 							
B22	1.1 - 1.4 r	n	Dark brown (7.5YR3/3-Moist); ; Fine sandy clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.2); Gradual, Smooth change to -						
B23	1.4 - 1.9 r	n	Brown (7.5YR4/4-Moist); ; Fine sandy clay loam; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Weak consistence; , Calcareous, , ; , Gypseous, , ; Field pH 7.5 (Raupach, 1.8);						

Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:257Observation ID:1Agency Name:QLD Department of Primary Industries

Observation Notes

Site Notes

Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLD DLR Site ID: 257 Observation ID: 1 Project Name: Project Code: Agency Name: DLR Site ID: 257 QLD Department of Primary Industries

Laboratory Test Results:

Depth	рН	1:5 EC	E Ca	Exchangeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ua -	Mg	ĸ		Cmol (+)/kg			%
0 - 0.1	5.4C 6.4A	0.06A								
0.1 - 0.3	5.6C 6.8A	0.04A								
0.43 - 0.72	5.9C 7.2A	0.01A	8.3B	3	0.33	0.11				
0.72 - 1.1	6.1C 7.5A	0.01A								
1.1 - 1.4 1.4 - 1.9	7.6A 7.8A	0.02A 0.02A	13.5E 9E	3.9 3.2	17.5 13	0.22 0.14		16.5B 11.5B		1.33 1.22

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 - 0.1 0.1 - 0.3		0.9A			0.08A	A			5D	72	10	17
0.43 - 0.72 0.72 - 1.1									4D	70	6	20
1.1 - 1.4 1.4 - 1.9				0.048A 0.047A		1.93A 2.01A			4D 7D	53 58	12 14	28 22
Depth	COLE	0 .4		metric/Volu			-	-	K s	at	K unsa	t
m		Sat.	0.05 Bar		0.5 Bar - m3/m3	1 Bar 🕴	5 Bar 15	Bar	mm	/h	mm/h	

0 - 0.1 0.1 - 0.3 0.43 - 0.72 0.72 - 1.1 1.1 - 1.4 1.4 - 1.9

Project Name:Preliminary Assessment and Survey of Land Degradation in the Dalrypmle Shire, QLDProject Code:DLRSite ID:257Observation ID:1Agency Name:QLD Department of Primary Industries

Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
12A1_CU	DTPA - extractable copper, zinc, manganese and iron
12A1_FE	DTPA - extractable copper, zinc, manganese and iron
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 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	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance