Projec	et Name: et Code: ey Name:	RE	gional G IRO Division	Site ID: of Soils (QI	T431 LD)	0	bservatio	n ID: 🥤	1	
Desc. E Date De Map Re	esc.: ef.: ng/Long.: g/Lat.:	M.G. 23/09 Shee 145.7		1:100000	Locality: Elevation: Rainfall: Runoff: Drainage:		100M sou No Data 3000 No runoff Very poor		of T430 Fan Palm Forest: ed	
	ireType:	Undis Qa	sturbed soil cor	e	Conf. Sub. is Parent. Mat.: Substrate Material:			No Data Unconsolidated material (unidentified)		
Land F Rel/Slo Morph. Elem. T Slope:	pe Class: Type:	Level plain <9m <1% Closed Depression Swamp <1 %			Pattern Typ Relief: Slope Categ Aspect:	No Data Category: Level				
<u>Surfac</u>	e Soil Co	onditio	on (dry): Se	lf-mulching, So	oft					
<u>Erosio</u> Soil Cl	o <u>n:</u> lassificati	<u>ion</u>								
Mesotro ASC C All nece	onfidence essary ana isturbanc	iosolic : ilytical	<b>cation:</b> Redoxic Hydro data are availa nited clearing, f	ble.		Princip Great	ng Unit: oal Profile Soil Group		N/A Gn3.90 No suitable group	
Surfac	- Coorco		all Strata - Tree	, 6.01-12m, M	id-dense. *Spe	ecies in	cludes - No	one Reco	orded	
-	e Coarse Morphol		ments:							
A1f	0 - 0.1 m		5mm, Faint; S <2 mm, Gran	Silty clay loam; ular; Smooth-p	Strong grade bed fabric; Mai	of stru ny (>5	cture, 2-5 n per 100mm	nm, Cast 2) Very f	%, 0-5mm, Faint; , 2-10%, 0- t; Strong grade of structure, fine (0.075-1mm) macropores, ; Diffuse, Wavy change to -	
A12	0.1 - 0.2	m	Silty clay loan Granular; Sm	n; Strong grad ooth-ped fabri	e of structure, c; Many (>5 pe	2-5 mr er 100r	n, Cast; Str nm2) Very	ong grad fine (0.0	int; , 2-10% , 0-5mm, Faint; de of structure, <2mm, 75-1mm) macropores, Diffuse, Wavy change to -	
A3	0.2 - 0.3	m	Sandy light cl Granular; Sm	ay; Strong gra ooth-ped fabri	de of structure c; Many (>5 pe	e, 2-5 m er 100m	nm, Cast; S nm2) Very	trong gra fine (0.07	int; , 2-10% , 0-5mm, Faint; ade of structure, <2mm, 75-1mm) macropores, Diffuse, Wavy change to -	
B1	0.3 - 0.55	5 m	Distinct; Sand structure, 10-2	ly medium clay 20 mm, Angul macropores, N	y; Strong grad ar blocky; Smo	e of str ooth-pe	ucture, 20- d fabric; M	50 mm, I any (>5 p	Distinct; , 2-10% , 5-15mm, Prismatic; Strong grade of per 100mm2) Very fine D-1mm) roots; Gradual,	
B2	0.55 - 0.8	35 m	Sandy mediui 10-20 mm, Ar	n clay; Strong ngular blocky;	grade of struc	cture, 2 abric; N	0-50 mm, F 1any (>5 pe	Prismatic er 100mn	2-10% , 5-15mm, Distinct; ;; Strong grade of structure, n2) Very fine (0.075-1mm)	
	0.85 - 1.1	15 m	Sandy mediu 10-20 mm, Ar	m clay; Strong ngular blocky;	grade of struc	cture, 2 abric; N	0-50 mm, F 1any (>5 pe	Prismatic er 100mn	2-10% , 5-15mm, Distinct; ;; Strong grade of structure, n2) Very fine (0.075-1mm)	
	1.15 - 1.4	45 m	Sandy mediu 10-20 mm, Ar	m clay; Strong ngular blocky;	grade of struc	cture, 2 abric; N	0-50 mm, F 1any (>5 pe	Prismatic er 100mn	2-10% , 5-15mm, Distinct; ;; Strong grade of structure, n2) Very fine (0.075-1mm)	

Project Code:	Regional REG Site ID: T431 Observation ID: 1 CSIRO Division of Soils (QLD)
1.45 - 1.75 r	Light grey (10YR7/2-Moist); , 10YR68, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm, Prominent; Sandy medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B2 1.75 - 1.9 m	Light grey (10YR7/2-Moist); , 10YR58, 10-20% , 5-15mm, Prominent; , 10-20% , 5-15mm, Prominent; Sandy medium clay; Strong grade of structure, 20-50 mm, Prismatic; Strong grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Many (>5 per 100mm2) Very fine (0.075-1mm) macropores, Moist; Firm consistence; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Soft segregations; Few, very fine (0-1mm) roots;
Morphological No	tes

## **Observation Notes**

Site Notes

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Project Name:	Regional			
Project Code:	REG	Site ID:	T431	Observation ID:
Agency Name:	<b>CSIRO</b> Division	of Soils (C	(LD)	

## Laboratory Test Results:

Depth	рН	1:5 EC Ex Ca	changeable Ca Mg K		Exc	changeable Acidity	CEC	ECEC	ESP
m		dS/m	wig n		Cmol (+)/k				%
0 - 0.1	5.08A	0.128A 3.24H	1.98 0	.84	0.22	1.44F	5A 19C	7.7F	4.40 1.16
0.1 - 0.2	4.9A	0.06A							
0.2 - 0.3	5.24A	0.023A <0.02H	0.61 0	.06	0.19	4.78F	4.2A 13C	5.7F	4.52 1.46
0.3 - 0.55	5.24A	0.028A							
0.55 - 0.85	5.29A	0.035A 0.28H	1.39 0	.05	0.32	1.8F	2.5A 9C	3.8F	12.80 3.56
0.85 - 1.15	5.45A	0.029A							
1.15 - 1.45	5.65A	0.039A							
1.45 - 1.75	5.7A	0.03A 0.81H	2.33 0	.07	0.6	1.43F	2.2A 8C	5.2F	27.27 7.50
1.75 - 1.9	5.95A	0.028A							

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk				nalysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.1		5.14C	70A 80B	0.087A	0.3A	2.3A		0	8D	15	48	30
0.1 - 0.2 0.2 - 0.3		1.45C	7A 15B	0.044A	0.08A	1.88A		0 0	5D 2D	13 14	41 39	41 45
0.3 - 0.55 0.55 - 0.85		0.47C	2A 6B	0.013A		1.4A		0 0	1D 1D	12 10	39 43	48 47
0.85 - 1.15 1.15 - 1.45 1.45 - 1.75		0.27C	6A 7B	0.018A		1.86A		0 0 0	0D 0D 0D	9 11 14	43 47 48	48 42 38
1.75 - 1.9			10					0	1D	16	48	35
Depth	COLE	Sat.		metric/Volu 0.1 Bar 0			s Bar 15 B	Bar	K s	at	K unsat	t
m		541	tite Bui		m3/m3				mm	/h	mm/h	

 $\begin{array}{c} 0 - 0.1 \\ 0.1 - 0.2 \\ 0.2 - 0.3 \\ 0.3 - 0.55 \\ 0.55 - 0.85 \\ 0.85 - 1.15 \\ 1.15 - 1.45 \\ 1.45 - 1.75 \\ 1.75 - 1.9 \end{array}$ 

Project Name:	Regional		
Project Code:	REG	Site ID:	T431
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

Observation ID: 1

## Laboratory Analyses Completed for this profile

10A1 12_HF_CU 12_HF_FE 12_HF_MN 12_HF_ZN 13C1_AL 13C1_FE 15A2_CEC 15D1_CEC 15D1_CEC 15E1_CA 15E1_K 15E1_MG 15E1_NA 15G_C	Total sulfur - X-ray fluorescence Total element - Cu(mg/kg) - HF/HClO4 Digest Total element - Fe(%) - HF/HClO4 Digest Total element - Mn(mg/kg) - HF/HClO4 Digest Total element - Zn(mg/kg) - HF/HClO4 Digest Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon 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; manual leach Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by
15J1 17A1 2A1 3A1 4A1 6B3 7A2 9A1 9B_9C 9G_BSES 9H1 P10_GRAV P10_PB_C P10_PB_CS P10_PB_FS P10_PB_Z	<ul> <li>Listandig events (in all generating and manually integred roots) of events by miniter original density by tritter or both density by trestrest density by tritter or both dens</li></ul>