Projec	t Name: t Code: y Name:	Regional REG Site ID: CSIRO Division of Soils (Q		Observation ID:	1
Desc. E Date De Map Re Northin Easting	esc.: ef.: ng/Long.: ŋ/Lat.:	R.J. Coventry 05/09/73 Sheet No. : 7956 1:100000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data 600 No Data No Data	
<u>Geolo</u> Exposu Geol. R	ireType:	Undisturbed soil core No Data	Conf. Sub. is Par Substrate Materia		
Morph. Elem. T Slope:	pe Class: Type: ype: e Soil Co	No Data No Data No Data 0 % ndition (dry): N/A	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
Soil Cl	assificati	on			
Mottled		assification: ic Brown Kandosol	Princ	ing Unit: ipal Profile Form: t Soil Group:	N/A Gn2.62 Yellow earth
All nec	essary ana	lytical data are available.		•	
		e: No effective disturbance other t			eronagen aantartus. Dathriachlas hladhii
<u>Vegeta</u>		Mid Strata - Tree, 3.01-6m, Ve			eropogon contortus, Bothriochloa bladhii orded
Surfac	o Coorco	Tall Strata - Tree, 6.01-12m, V	• •	s includes - Eucalyp	tus shirleyi
	Morphol	Fragments: No surface coarse	nagments		
A1	0 - 0.1 m				
A1/A3	0.1 - 0.2	m Dark yellowish brown (10Y Massive grade of structure;			-Dry); ; Sandy loam (Heavy); ge to -
A3	0.2 - 0.3	m Brown (10YR4/3-Moist); Da structure; Dry; Weak consis			ndy loam; Massive grade of
B1	0.3 - 0.4	m Yellowish brown (10YR5/7- grade of structure; Moist; W		llow (10YR6/8-Dry)	; Sandy clay loam; Massive
B1	0.4 - 0.6	m Yellowish brown (10YR5/7- grade of structure; Moist; W		llow (10YR6/8-Dry);	; Sandy clay loam; Massive
B2	0.6 - 0.9	,	y; Massive grade of	structure; Moist; Ve	histinct; , 20-50% , 5-15mm, ery firm consistence; Very few
B2	0.9 - 1.2		y; Massive grade of		histinct; , 20-50% , 5-15mm, ery firm consistence; Very few
B2	1.2 - 1.5		y; Massive grade of		histinct; , 20-50% , 5-15mm, ery firm consistence; Very few
B2	1.5 - 1.8		dium clay; Massive g		istinct; , 10YR57, 20-50% , 5- loist; Very firm consistence;
B2	1.8 - 2.1		dium clay; Massive g	rade of structure; N	istinct; , 10YR57, 20-50% , 5- loist; Very firm consistence;

Projec	t Code: F	Regional REG Site ID: T339 Observation ID: 1 CSIRO Division of Soils (QLD)
B3	2.1 - 2.4 m	Greyish brown (10YR5/2-Moist); , 10YR54, 20-50% , 15-30mm, Prominent; , 2.5YR47, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Many, fine (1-2mm) roots;
B3	2.4 - 2.7 m	Greyish brown (10YR5/2-Moist); , 10YR54, 20-50% , 15-30mm, Prominent; , 2.5YR46, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Many, fine (1-2mm) roots; Gradual change to -
C1	2.7 - 3 m	Greyish brown (10YR5/2-Moist); , 10YR58, 20-50% , 15-30mm, Prominent; , 2.5YR46, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Few, fine (1-2mm) roots;
C1	3 - 3.5 m	Greyish brown (10YR5/2-Moist); , 10YR58, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20-50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; Gradual change to -
C2	3.5 - 4 m	Light reddish brown (2.5YR6/3-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20- 50% , 15-30mm, Prominent; Sandy clay loam; Massive grade of structure; Moist; Strong consistence; 10-20%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
C2	4 - 4.5 m	Light reddish brown (2.5YR6/3-Moist); , 7.5YR58, 20-50% , 15-30mm, Prominent; , 2.5YR48, 20- 50% , 15-30mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Strong consistence; 10-20%, coarse gravelly, 20-60mm, Substrate material, coarse fragments; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules; Gradual change to -
C3	4.5 - 4.65 m	Dark red (2.5YR3/5-Moist); , 10YR61, 20-50% , 15-30mm, Prominent; , 7.5YR58, 20-50% , 15- 30mm, Prominent; Clayey sand; Massive grade of structure; Moist; Very strong consistence; 10- 20%, coarse gravelly, 20-60mm, Substrate material, coarse fragments;

Morphological Notes

Observation Notes SOME PEDOTUBATION THROUGHOUT A1/A3 HORIZONS. Site Notes

Project Name:	Regional			
Project Code:	REG	Site ID:	T339	
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	wig	n	Cmol (%
0 - 0.1	6A	0.047A 2.24H	1.4	0.26	0.03	0.34F	6.7A	4.3F	0.45
0.1 - 0.2	5.4A	0.024A							
0.2 - 0.3	5.2A	0.26A 0.8H	1.05	0.09	0.03	0.37F	4.41A	2.3F	0.68
0.3 - 0.4	5.4A	0.024A							
0.4 - 0.6	5.4A	0.018A 0.61H	1.4	0.07	0.05	0.36F	3.39A	2.5F	1.47
0.6 - 0.9	5.5A	0.025A							
0.9 - 1.2	6.2A	0.026A 0.33H	1.64	0.07	0.23	0.3F	3.89A	2.6F	5.91
1.2 - 1.5	6.6A	0.023A							
1.5 - 1.8	7A	0.023A					4.45A		
1.8 - 2.1	6.9A	0.023A <0.02H	2.74	0.06	0.24	0.22F		3.3F	
2.1 - 2.4	6.9A	0.025A							
2.4 - 2.7	7A	0.026A							
2.7 - 3	7.1A	0.024A							
3 - 3.5	6.9A	0.023A							
3.5 - 4	7.1A	0.038A							

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 4 - 4.5
 7.3A
 0.09A

 4.5 - 4.65
 7.4A
 0.094A

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		1.08D	11B	0.009A	0.148A	0.07A		1	35A	38	11	16
0.1 - 0.2		0.56D	7B		0.056A			0	34A	40	10	16
0.2 - 0.3		0.36D	7B	0.007A	0.086A	0.07A		0	38A	34	10	18
0.3 - 0.4								0	33A	36	10	22
0.4 - 0.6			5B	0.005A		0.08A		0	32A	34	10	25
0.6 - 0.9								1	30A	28	9	33
0.9 - 1.2				0.007A		0.09A		3	30A	26	9	34
1.2 - 1.5								2	29A	25	9	37
1.5 - 1.8								1	25A	25	10	39
1.8 - 2.1								3	25A	25	11	39
2.1 - 2.4								3	29A	26	10	36
2.4 - 2.7								12	30A	28	11	32
2.7 - 3								5	37A	30	9	25
3 - 3.5								5	39A	33	10	19
3.5 - 4								13	39A	30	10	21
4 - 4.5								18	36A	20	8	35
4.5 - 4.65								20	59A	21	5	15
Depth	COLE		Gravir	netric/Volu	metric Wate	r Content	s		K sa	ıt	K unsa	t

Depth	OOLL		Clavinetic/Volumetice Water Contents			it out	it unsut			
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	'g - m3/m3				mm/h	mm/h

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1.2

Project Name: Project Code: Agency Name:	Regional REG CSIRO Divisi	Site ID: on of Soils (C	
1.2 - 1.5			
1.5 - 1.8			
1.8 - 2.1			

1.8 - 2.1 2.1 - 2.4 2.4 - 2.7 2.7 - 3 3 - 3.5 3.5 - 4 4 - 4.5 4.5 - 4.65

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Project Name:RegionalProject Code:REGSite ID:T339Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

10A1 13C1_FE 15A2_CEC 15E1_CA 15E1_K 15E1_MG	Total sulfur - X-ray fluorescence Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts 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
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
MIN_EC	Exchange Capacity - Minerology
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 P10_GRAV	Silt (%) - Coventry and Fett pipette method Gravel (%)
XRD C II	Illite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_K2O	Kaolin - X-Ray Diffraction
XRD_C_Ra	Quartz - X-Ray Diffraction
,B_0_02	Quite Array Binadion