	ct Code: cy Name:	CSIRO Division of Soi	ls (QLD)		
Site I	nformation	<u>1</u>			
	Desc.:	R.J. Coventry 03/10/73 Sheet No. : 7956 1:10000 145.19333333333 -20.727777777778	Locality: Elevation: 0 Rainfall: Runoff: Drainage:	No Data 600 No Data No Data	
<u>Geolo</u> Expos Geol.	sureType:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia		
Rel/SI Morph Elem. Slope		No Data No Data 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data No Data	
<u>Surfa</u>	ice Soil Co	ondition (dry): N/A			
Erosi					
Soil C	Classificat	ion			
Ferric		assification: rey Kandosol	Princ	ing Unit: ipal Profile Form:	N/A Gn2.64 Yellow earth
		: lytical data are available.	Great	Soil Group:	Yellow earth
		e: No effective disturbance of	other than grazing by hoof	ed animals	
Vege			outor unan grazing by noor		
		Low Strata - Tussock dra	iss 0.51-1m Sparse *Spe		e recorded
			iss, 0.51-1m, Sparse. *Spe m, Very sparse. *Species i	ecies includes - Non	
		Mid Strata - Tree, 3.01-6	m, Very sparse. *Species i	ecies includes - Non ncludes - None reco	
		Mid Strata - Tree, 3.01-6	m, Very sparse. *Species i 2m, Very sparse. *Species	ecies includes - Non ncludes - None reco	orded
Surfa		Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co	m, Very sparse. *Species i 2m, Very sparse. *Species	ecies includes - Non ncludes - None reco	orded
Surfa	ice Coarse	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co ogy Dark greyish brown (1	m, Very sparse. *Species i 2m, Very sparse. *Species	ecies includes - Non ncludes - None reco includes - Eucalypt )YR5/3-Dry); ; Sand	orded us similis, Grevillea pteridifoli y loam; Massive grade of
<u>Surfa</u> Profil	ice Coarse le Morphol	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co Ogy Dark greyish brown (1 structure; Dry; Weak o m Brown (10YR5/3-Mois structure; Dry; Weak o	m, Very sparse. *Species i 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF	ecies includes - Non ncludes - None reco includes - Eucalypt 0YR5/3-Dry); ; Sand -2mm) roots; Gradu 85/4-Dry); ; Sandy Io m gravelly, 6-20mm	orded tus similis, Grevillea pteridifoli ly loam; Massive grade of al change to -
Surfa Profil A11	i <mark>ce Coarse</mark> l <mark>e Morphol</mark> 0 - 0.1 m	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co ogy Dark greyish brown (1 structure; Dry; Weak fragments; Common, Yellowish brown (10Y grade of structure; D	m, Very sparse. *Species i 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF consistence; 0-2%, mediu fine (1-2mm) roots; Gradu (R5/5-Moist); Brownish yel	ecies includes - Non ncludes - None reco includes - Eucalypt DYR5/3-Dry); ; Sand -2mm) roots; Gradu R5/4-Dry); ; Sandy Io m gravelly, 6-20mm Ial change to - Iow (10YR6/5-Dry); ry few (0 - 2 %), Fer	orded cus similis, Grevillea pteridifoli ly loam; Massive grade of al change to - pam; Massive grade of
<u>Surfa</u> <u>Profil</u> A11 A12	ice Coarse le Morphol 0 - 0.1 m 0.1 - 0.2	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co Dark greyish brown (1 structure; Dry; Weak of m Brown (10YR5/3-Mois structure; Dry; Weak of fragments; Common, M Yellowish brown (10Y grade of structure; D Nodules; Few, fine (1 M Yellowish brown (10Y Distinct; , 2-10% , 0-5	m, Very sparse. *Species i 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF consistence; 0-2%, mediur fine (1-2mm) roots; Gradu (7R5/5-Moist); Brownish yel ry; Weak consistence; Ve -2mm) roots; Gradual cha	ecies includes - Non ncludes - None reco includes - Eucalypt DYR5/3-Dry); ; Sand -2mm) roots; Gradu &5/4-Dry); ; Sandy Ic m gravelly, 6-20mm al change to - low (10YR6/5-Dry); ry few (0 - 2 %), Fer nge to - low (10YR6/6-Dry); oam (Light); Massiv	brded tus similis, Grevillea pteridifoli ly loam; Massive grade of al change to - pam; Massive grade of , subangular, Quartz, coarse ; Sandy loam (Light); Massiv ruginous, Medium (2 -6 mm), , 7.5YR58, 2-10% , 0-5mm, re grade of structure; Dry;
<u>Surfa</u> Profil A11 A12 A3	ice Coarse le Morphol 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co Dark greyish brown (1 structure; Dry; Weak of m Brown (10YR5/3-Mois structure; Dry; Weak of fragments; Common, M Yellowish brown (10Y grade of structure; D Nodules; Few, fine (1 m Yellowish brown (10Y Distinct; , 2-10%, 0-5 Weak consistence; Fe M Yellowish brown (10Y Distinct; , 2-10%, 0-5	m, Very sparse. *Species i 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF consistence; 0-2%, mediur fine (1-2mm) roots; Gradu (7E5/5-Moist); Brownish yel ry; Weak consistence; Ve -2mm) roots; Gradual cha (7E5/6-Moist); Brownish yel imm, Distinct; Sandy clay l ew (2 - 10 %), Ferruginous (7E5/6-Moist); Brownish yel imm, Distinct; Sandy clay l	ecies includes - Non ncludes - None reco includes - Eucalypt DYR5/3-Dry); ; Sand -2mm) roots; Gradu R5/4-Dry); ; Sandy Ic m gravelly, 6-20mm Ial change to - low (10YR6/5-Dry); ry few (0 - 2 %), Fer nge to - low (10YR6/6-Dry); oam (Light); Massiv coarse (6 - 20 mn low (10YR6/6-Dry); oam (Light); Massiv	brded tus similis, Grevillea pteridifoli ly loam; Massive grade of al change to - bam; Massive grade of , subangular, Quartz, coarse ; Sandy loam (Light); Massive ruginous, Medium (2 -6 mm), , 7.5YR58, 2-10% , 0-5mm, e grade of structure; Dry; h), Nodules; , 7.5YR58, 2-10% , 0-5mm,
<u>Surfa</u> Profil A11 A12 A3 B1	1000 Coarse 1000	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co ogy Dark greyish brown (1 structure; Dry; Weak of m Brown (10YR5/3-Mois structure; Dry; Weak of fragments; Common, m Yellowish brown (10Y grade of structure; D Nodules; Few, fine (1 m Yellowish brown (10Y Distinct; , 2-10%, 0-5 Weak consistence; Fe m Yellowish brown (10Y Distinct; , 2-10%, 0-5 Weak consistence; Co change to - m Yellowish brown (10Y Distinct; Sandy clay lo	m, Very sparse. *Species 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF consistence; 0-2%, mediuu fine (1-2mm) roots; Gradu (R5/5-Moist); Brownish yel ory; Weak consistence; Ve -2mm) roots; Gradual cha (R5/6-Moist); Brownish yel imm, Distinct; Sandy clay l ow (2 - 10 %), Ferruginous (R5/6-Moist); Brownish yel imm, Distinct; Sandy clay l ommon (10 - 20 %), Ferru	ecies includes - Non ncludes - None reco i includes - Eucalypt DYR5/3-Dry); ; Sand -2mm) roots; Gradu 25/4-Dry); ; Sandy Ic m gravelly, 6-20mm ial change to - low (10YR6/5-Dry); ry few (0 - 2 %), Fer nge to - low (10YR6/6-Dry); oam (Light); Massiv s, Coarse (6 - 20 mm low (10YR6/6-Dry); oam (Light); Massiv ginous, Coarse (6 - 10% , 0-5mm, Disti ucture; Dry; Strong c	brded sus similis, Grevillea pteridifoli ly loam; Massive grade of al change to - bam; Massive grade of , subangular, Quartz, coarse ; Sandy loam (Light); Massiv ruginous, Medium (2 -6 mm), , 7.5YR58, 2-10% , 0-5mm, re grade of structure; Dry; n), Nodules; , 7.5YR58, 2-10% , 0-5mm, re grade of structure; Dry; 20 mm), Nodules; Gradual
Surfa Profil A11 A12 A3 B1 B1	ice Coarse le Morphol 0 - 0.1 m 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.7	Mid Strata - Tree, 3.01-6 Tall Strata - Tree, 6.01-12 Fragments: No surface co Dark greyish brown (1 structure; Dry; Weak of m Brown (10YR5/3-Mois structure; Dry; Weak of fragments; Common, M Yellowish brown (10Y grade of structure; D Nodules; Few, fine (1 m Yellowish brown (10Y Distinct; , 2-10%, 0-5 Weak consistence; Fe m Yellowish brown (10Y Distinct; , 2-10%, 0-5 Weak consistence; Co change to - m Yellowish brown (10Y Distinct; Sandy clay lo 100 %), Ferruginous, m Greyish brown (10YR	m, Very sparse. *Species i 2m, Very sparse. *Species oarse fragments 10YR4/2-Moist); Brown (10 consistence; Many, fine (1 st); Yellowish brown (10YF consistence; 0-2%, mediur fine (1-2mm) roots; Gradu (785/5-Moist); Brownish yel ry; Weak consistence; Ve -2mm) roots; Gradual cha (785/6-Moist); Brownish yel mm, Distinct; Sandy clay l mm, Distinc	ecies includes - Non ncludes - None reco includes - Eucalypt DYR5/3-Dry); ; Sand -2mm) roots; Gradu &5/4-Dry); ; Sandy Ic m gravelly, 6-20mm al change to - low (10YR6/5-Dry); ry few (0 - 2 %), Fer nge to - low (10YR6/6-Dry); oam (Light); Massiv ginous, Coarse (6 - 20 mm low (10YR6/6-Dry); oam (Light); Massiv ginous, Coarse (6 - - 10% , 0-5mm, Disti ucture; Dry; Strong c iles; 0% , 0-5mm, Promin grade of structure; I	brded sus similis, Grevillea pteridifoli (y loam; Massive grade of (al change to - bam; Massive grade of , subangular, Quartz, coarse ; Sandy loam (Light); Massiv ruginous, Medium (2 -6 mm), , 7.5YR58, 2-10% , 0-5mm, re grade of structure; Dry; n), Nodules; , 7.5YR58, 2-10% , 0-5mm, re grade of structure; Dry; 20 mm), Nodules; Gradual nct; , 2-10% , 0-5mm,

Projec	ct Name: ct Code: cy Name:	Regional REG Site ID: T340 Observation ID: 1 CSIRO Division of Soils (QLD)
B2	1.5 - 1.8 m	Greyish brown (10YR5/2-Moist); , 7.5YR58, 2-10% , 0-5mm, Prominent; , 2.5YR36, 2-10% , 0- 5mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 2- 10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
BC	1.8 - 2.1 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Gradual change to -
BC	2.1 - 2.4 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 10-20%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
BC	2.4 - 2.7 m	Grey (10YR6/1-Moist); , 5YR58, 10-20% , 5-15mm, Prominent; , 2.5YR36, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Dry; Strong consistence; 20-50%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
C1	2.7 - 3 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;
C1	3 - 3.3 m	Grey (10YR6/1-Moist); , 7.5YR58, 10-20% , 5-15mm, Prominent; , 5YR58, 10-20% , 5-15mm, Prominent; Sandy medium clay; Massive grade of structure; Moist; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;
Mornh	N logical	otes

Morphological Notes

Observation Notes SOME BIOTURBATION IN A1/A3 HORIZONS .

Site Notes

Project Name:	Regional			
Project Code:	REG	Site ID:	T340	
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)	

Observation ID: 1

## Laboratory Test Results:

Depth	рН	1:5 EC E Ca	xchangeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	wig	n	Cmol				%
0 - 0.1 0.1 - 0.2	6.5A	0.028A 0.67⊢ 0.025A	l 0.96	0.11	0.08	0.29F	2.58A	2.1F	3.10
0.2 - 0.3 0.3 - 0.6	6.5A	0.025A 0.18H 0.023A	l 1.26	0.05	0.21	0.59F	2.58A	2.3F	8.14
0.6 - 0.7 0.7 - 0.9	6.4A	0.02A 0.02A 0.06H	l 2.12	0.05	0.28	0.43F	3.83A	2.9F	7.31
0.9 - 1.2 1.2 - 1.5	6.4A	0.021A 0.018A <0.02⊦	2.28	0.04	0.3	0.24F	3.59A	2.9F	8.36
1.5 - 1.8	6.3A	0.017A							
1.8 - 2.1 2.1 - 2.4	6.3A 6.3A	0.017A 0.018A							
2.4 - 2.7	6.1A	0.018A							
2.7 - 3 3 - 3.3	5.8A 5.7A	0.016A 0.017A							

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size	Analysi	s
		С	P	Р	N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		0.64D	3B	0.008A	0.036A	0.07A		3	35A	43	7	16
0-0.1		0.64D 0.54D	3B 1B	0.006A	0.036A 0.026A			2	33A	43		21
										-	-	
0.2 - 0.3		0.22D	2B	0.006A	0.019A	0.09A		4	30A	37	-	24
0.3 - 0.6								6	29A	34	6	31
0.6 - 0.7								15	29A	29	7	35
0.7 - 0.9				0.01A		0.12A		57	32A	28	5	35
0.9 - 1.2								52	35A	29	6	30
1.2 - 1.5				0.037A		0.13A		32	42A	22	6	31
1.5 - 1.8								27	42A	18	-	35
1.8 - 2.1								35	34A	20	-	41
2.1 - 2.4								36	35A	18	-	42
										-	-	
2.4 - 2.7								40	33A	19	-	42
2.7 - 3								6	41A	25	6	28
3 - 3.3								3	44A	23	6	27

Depth	COLE	COLE Gravimetric/Volumetric Water Contents						K sat	K unsat		
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar 3	5 Bar	15 Bar	mm/h	mm/h	
0 - 0.1											
0.1 - 0.2											
0.2 - 0.3											
03-06											

0.2 - 0.3 0.3 - 0.6 0.6 - 0.7 0.7 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.4 2.4 - 2.7 2.7 - 3

Project Name: Regional Project Code: REG Site ID: T340 Agency Name: CSIRO Division of Soils (QLD)

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Observation ID: 1

## Project Name:RegionalProject Code:REGSite ID:T340Agency 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 15E1_NA 15G_C	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 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 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)
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
P10_GRAV	Gravel (%)