Project Name: Project Code: Agency Name:	Regional REG Site ID: CSIRO Division of Soils (Q		Observation ID:	1
Site Information Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.: Geology	2 M.D. Laffan 02/08/84 Sheet No. : 7963 1:100000 145.470555555556 -17.329722222222	Locality: Elevation: Rainfall: Runoff: Drainage:	770 metres 1500 No Data Rapidly drained	
ExposureType: Geol. Ref.:	Existing vertical exposure PGZ	Conf. Sub. is Pare Substrate Materia		
Land Form Rel/Slope Class:	Undulating low hills 30-90m 3- 10%	Pattern Type:	No Data	
Morph. Type: Elem. Type: Slope: Surface Soil Co	Mid-slope Hillslope 10 %	Relief: Slope Category: Aspect:	No Data No Data 40 degrees	
Erosion: Soil Classificati				
Australian Soil Cl Melanic Paralithic ASC Confidence All necessary ana	assification: Chernic Tenosol	Princ Great	ing Unit: ipal Profile Form: Soil Group:	N/A Uc2.21 Siliceous sand
Vegetation:	Tall Strata - Tree, 6.01-12m, M Fragments: 0-2%, fine gravelly	lid-dense. *Species i		orded
		, 2-omm, angular, Q	uartz	
Profile Morphol A1 0-0.1 m		r; Earthy fabric; Mod eoriented, Quartz, co	erately moist; Weak	
A1 0.1 - 0.2	m Very dark greyish brown (1 structure, 2-5 mm, Granula gravelly, 2-6mm, angular, r Common, fine (1-2mm) roc	r; Earthy fabric; Mod eoriented, Quartz, co	erately moist; Weak barse fragments; Fie	
A2 0.2 - 0.3	m Brown (10YR4/3-Moist); , C fabric; Moderately moist; Fi Quartz, coarse fragments;	irm consistence; 0-29	%, fine gravelly, 2-6	
A2 0.3 - 0.4	fabric; Moderately moist; Fi	irm consistence; 0-29	%, fine gravelly, 2-6	sive grade of structure; Earthy mm, angular, reoriented, 1-2mm) roots; Clear, Wavy
B21 0.4 - 0.6	grade of structure; Earthy f	abric; Moderately mo Quartz, coarse fragm	oist; Weak consister	ndy loam (Heavy); Massive ice; 0-2%, fine gravelly, 2- pH meter); Common, fine (1-
B22 0.6 - 0.9	structure, 10-20 mm, Angu	lar blocky; Earthy fat	oric; Moderately moi	oam (Heavy); Weak grade of st; Weak consistence; 0-2%, ts; Field pH 6.5 (pH meter);
B22 0.9 - 1.2	structure, 10-20 mm, Angu	lar blocky; Earthy fat lar, undisturbed, Qua	oric; Moderately moi artz, coarse fragmer	oam (Heavy); Weak grade of st; Weak consistence; 0-2%, ts; Field pH 6.5 (pH meter);

Projec	et Name: et Code: ey Name:	Regional REG Site ID: T388 Observation ID: 1 CSIRO Division of Soils (QLD)
B3	1.2 - 1.5 m	Strong brown (7.5YR4/6-Moist); , 0-0%; , 0-0%; Coarse sandy loam; Weak grade of structure, 5- 10 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, undisturbed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Few, fine (1-2mm) roots;
B3	1.5 - 1.8 m	Strong brown (7.5YR4/6-Moist); , 0-0% ; , 0-0% ; Coarse sandy loam; Weak grade of structure, 5- 10 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, undisturbed, Quartz, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, prominent; Few, fine (1-2mm) roots;

## Morphological Notes

**Observation Notes** R'FOREST 16C:PARENT MATERIAL STRONGLY DISAGGREGATED WEAKLY TO MODERATE WEATHERED GRANITE:

#### Site Notes

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# Laboratory Test Results:

рН	1:5 EC				Na	Exchangeable Acidity	CEC	ECEC	ESP
	dS/m	-	9						%
5.4D 6.3A	0.077A	7.4H	2.1	0.27	0.02	0.22F	5.8A 11C	10F	0.34 0.18
6.2A	0.038A								
6.1A	0.023A								
6.2A	0.017A								
4.5D	0.013A	0.34H	0.28	0.18	0.04	0.43F	1A	1.3F	4.00
6.2A									
6.3A	0.01A								
4.7D	0.008A	0.11H	0.13	0.17	0.03	0.22F	0.8A	0.7F	3.75
6.3A							3C		1.00
6.2A	0.013A								
6.2A	0.011A								
	5.4D 6.3A 6.2A 6.1A 6.2A 4.5D 6.2A 6.3A 4.7D 6.3A 6.2A	cds/m     5.4D   0.077A     6.3A   0.038A     6.2A   0.038A     6.1A   0.023A     6.2A   0.017A     4.5D   0.013A     6.2A   0.013A     6.3A   0.01A     4.7D   0.008A     6.3A   0.013A	Ca dS/m 5.4D 0.077A 7.4H 6.3A 6.2A 0.038A 6.2A 0.017A 4.5D 0.013A 0.34H 6.2A 6.3A 0.01A 4.7D 0.008A 0.11H 6.3A 6.2A 0.013A	Ca   Mg     dS/m   0.077A   7.4H   2.1     6.3A   0.038A   6.1A   0.023A     6.2A   0.017A   4.5D   0.013A   0.34H   0.28     6.2A   0.01A   4.7D   0.008A   0.11H   0.13     6.3A   0.013A   0.34H   0.28   6.3A   0.01A	Ca   Mg   K     dS/m   5.4D   0.077A   7.4H   2.1   0.27     6.3A   6.2A   0.038A   6.2A   0.023A     6.2A   0.017A   4.5D   0.013A   0.34H   0.28   0.18     6.2A   0.013A   0.34H   0.28   0.18   6.3A   0.01A     4.7D   0.008A   0.11H   0.13   0.17   6.3A   6.2A   0.013A	Ca   Mg   K   Na     dS/m   Cmol     5.4D   0.077A   7.4H   2.1   0.27   0.02     6.3A   0.038A   6.2A   0.038A   6.2A   0.023A     6.2A   0.017A   4.5D   0.013A   0.34H   0.28   0.18   0.04     6.3A   0.01A   4.7D   0.008A   0.11H   0.13   0.17   0.03     6.3A   0.013A   0.34H   0.28   0.18   0.04	Ca   Mg   K   Na   Acidity Cmol (+)/kg     5.4D   0.077A   7.4H   2.1   0.27   0.02   0.22F     6.3A   6.2A   0.038A   6.2A   0.023A   6.2A   0.017A     4.5D   0.017A   0.28   0.18   0.04   0.43F     6.2A   0.013A   0.34H   0.28   0.18   0.04   0.43F     6.3A   0.01A   0.11H   0.13   0.17   0.03   0.22F     6.3A   0.01A   0.11H   0.13   0.17   0.03   0.22F     6.3A   0.013A   0.11H   0.13   0.17   0.03   0.22F	Ca   Mg   K   Na   Acidity Cmol (+)/kg     5.4D   0.077A   7.4H   2.1   0.27   0.02   0.22F   5.8A     6.3A   6.2A   0.038A   11C   6.2A   0.017A   4.5D   0.017A   4.5D   0.013A   0.34H   0.28   0.18   0.04   0.43F   1A     6.2A   0.01A   4.7D   0.008A   0.11H   0.13   0.17   0.03   0.22F   0.8A     6.3A   0.01A   3C   6.2A   3C   0.8A   3C	Ca   Mg   K   Na   Acidity Cmol (+)/kg     5.4D   0.077A   7.4H   2.1   0.27   0.02   0.22F   5.8A   10F     6.3A   11C   11C   11C   11C   11C   11C     6.2A   0.038A   11C   11C   11C   11C   11C     6.2A   0.017A   1000000000000000000000000000000000000

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size / FS	Analysis Silt	s Clav
m	%	%	mg/kg	%	%	%	Mg/m3			%		,
0 - 0.1 0.1 - 0.2		3.51C	9B	0.017A	0.12A	4.12A		11	55A	22	10	13
0.2 - 0.3 0.3 - 0.4			4B					27	66A	17	8	9
0.4 - 0.6 0.6 - 0.9				0.009A		4.02A		18	66A	19	6	10
0.9 - 1.2 1.2 - 1.5				0.008A		4.44A		21	62A	23	9	6
1.5 - 1.8								28	68A	15	9	9

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

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.3 - 0.4 0.4 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8

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### Laboratory Analyses Completed for this profile

10A1 Total sulfur - X-ray fluorescence   12_HF_CU Total element - Cu(mg/kg) - HF/HClO4 Digest	
12_HF_FE Total element - Fe(%) - HF/HCIO4 Digest	
12_HF_MN Total element - Mn(mg/kg) - HF/HCIO4 Digest	
12_HF_ZN Total element - Zn(mg/kg) - HF/HCIO4 Digest 15A2_CEC Exchangeable bases- 1M ammonium chloride at pH 7.0, pr	atractment for caluble calta
15D1_CEC CEC - 1M ammonium acetate at pH 7.0, pretreatment for si	
15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive	-
15E1 K Exchangeable bases, CEC and AEC by compulsive exchan	
15E1_MG Exchangeable bases, CEC and AEC by compulsive exchar	
15E1_NA Exchangeable bases, CEC and AEC by compulsive exchar	
15G_C Exchange acidity (hydrogen and aluminium) - meq per 100	g 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	
4C1 pH of 1:5 soil/1M potassium chloride extract - direct 5A2 Chloride - 1:5 soil/water extract, automated colour	
5A2 Chloride - 1:5 soil/water extract, automated colour 6B3 Total organic carbon - high frequency induction furnace, inf	rared
7A2 Total nitrogen - semimicro Kieldahl , automated colour	Taleu
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 (%)	