Project Name Project Code Agency Name	: NAR		Site ID: of Soils (QI	B581 ∟D)	O	bservatio	n ID:	1
Site Informat	ion							
Desc. By: Date Desc.: Map Ref.: Northing/Long Easting/Lat.:	.: 150.775	9 No. : 9046 1	1:100000	Locality: Elevation: Rainfall: Runoff: Drainage:		Narayen F 260 metr 712 Moderate Moderate	es ly rapid	
<u>Geology</u> ExposureType Geol. Ref.:	: Soil pit Pla			Conf. Sub. Substrate M			No Data Undistu	a ırbed soil core, 1.2 m deep,Andesite
Land Form Rel/Slope Clas	s: Undulat 10%	ting low hills :	30-90m 3-	Pattern Typ	be:	Low hills		
Morph. Type: Elem. Type: Slope:	No Data Pedime 4.4 %			Relief: Slope Cate Aspect:	gory:	5 metres No Data No Data		
Surface Soil	Condition	(dry): Ha	rdsetting					
Erosion:								
Soil Classific	ation							
Australian Soil Haplic Epipedal ASC Confiden All necessary a	Red Vertos	sol	hle		Princip	ng Unit: bal Profile Soil Group		N/A Dr2.13 Red-brown earth
Site Disturba	•			han grazing b	y hoofe	d animals		
Vegetation:			sock grass, , .	0 0			led	
Surface Coar			, 6.01-12m, Sp urface coarse f	•	es includ	des - None	Recorde	ed
Profile Morph	nology							
A1 0-0.0	С	consistence; (gravelly, 6-2	0mm, Q	uartz, coar	se fragn	ucture, Platy; Dry; Firm nents; Very few (0 - 2 %),
A1 0.05 -	A	Angular block	y; Dry; Firm co	onsistence; 0	-2%, coa	arse gravel	ly, 20-60	de of structure, 10-20 mm, 0mm, subrounded, Quartz, m), Nodules; Clear change to
B1 0.1 - 0	P	Polyhedral; D	ry; Firm consis	stence; 2-10%	6, mediu	im gravelly	, 6-20mr	of structure, 5-10 mm, n, subrounded, Quartz, m), Nodules; Clear change to
B21 0.15 -	P	Polyhedral; D		stence; 0-2%,	, fine gra	avelly, 2-6m	nm, subr	grade of structure, 5-10 mm, ounded, Quartz, coarse lules;
B21 0.2 - 0	P	Polyhedral; M		st; Very firm o	consiste	nce; 0-2%,	fine gra	f structure, 5-10 mm, velly, 2-6mm, Quartz, coarse ules;
B21 0.3 - 0	P	Polyhedral; M	loderately mois	st; Very firm o	consiste	nce; 0-2%,	fine gra	f structure, 5-10 mm, velly, 2-6mm, Quartz, coarse ules; Gradual change to -
B22 0.55 -		5-10 mm, Le Quartz, coars	enticular; Mode	rately moist; Few (2 - 10 %	Very firr 6), Mang	n consister	nce; 0-29	icture, 50-100 mm, Lenticular; %, medium gravelly, 6-20mm, n (2 -6 mm), Nodules; Very few
B22 0.6 - 0	:	5-10 mm, Le Quartz, coars	nticular; Mode	rately moist; Few (2 - 10 %	Very firr 6), Mang	n consister ganiferous,	nce; 0-29	cture, 50-100 mm, Lenticular; %, medium gravelly, 6-20mm, n (2 -6 mm), Nodules; Few (2 -

Project Name: NAR Project Code: NAR Site ID: B581 Observation ID: Agency Name: CSIRO Division of Soils (QLD)	: 1
B22 0.9 - 1.12 m Reddish brown (2.5YR4/3-Moist); ; Heavy clay; Moderate grade of Lenticular; 20-50 mm, Angular blocky; Moderately moist; Very firm medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fra Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Cal Nodules; Diffuse change to -	n consistence; 10-20%, agments; Few (2 - 10 %),
B3 1.12 - 1.2 m Reddish brown (2.5YR4/3-Moist); ; Medium heavy clay; Moderate Lenticular; 20-50 mm, Angular blocky; Moderately moist; Very firr medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fra Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Cal Nodules;	n consistence; 10-20%, agments; Few (2 - 10 %),
C 1.2 - 1.34 m ; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), co	barse fragments;
C 1.34 - 1.5 m ; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), co	parse fragments;

Morphological Notes

Observation Notes 0-5CM PLATY GRADING TO ANGULAR BLOCKY STRUCTURE. OLG(5Y6/2) WEATHERED ANDERSITE WITH CLAY VEINS.

Site Notes

MUNDUBBERA

Project Name:	NAR		
Project Code:	NAR	Site ID:	B581
Agency Name:	CSIRO Divi	sion of Soils (C	(LD)

Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	Exe	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
m		C dS/m	a	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.05	6.1H	0.022B	7.6K	4.5	0.57	0.11	10.1D			
0.05 - 0.1	5.6H	0.027B	8.4K	4.9	0.17	0.17	10.6D			
0.1 - 0.15	5.8H	0.02B	8.2K	5	0.11	0.34	9.4D			
0.15 - 0.2	6.1H	0.02B	10.6K	6.1	0.13	0.41	5.9D			
0.2 - 0.3	6.4H	0.02B								
0.3 - 0.55	7.4H	0.025B	14.2K	8.4	0.11	0.7	0.8D			
0.55 - 0.6	8.2H	0.07B	17K	9.3	0.12	0.84	0D			
0.6 - 0.9	8.4H	0.075B								
0.9 - 1.12	8.5H	0.076B								
1.12 - 1.2	8.5H	0.08B	18.9K	10.6	0.13	0.96	0D			
1.2 - 1.34	8.7H	0.051B								
1.34 - 1.5	8.7H	0.046B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size A FS	nalysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3		00	%	Ont	Olay
0 - 0.05		3E	62B	0.097F	0.161B	0.92B		2	7C	36	19	31
0.05 - 0.1		1.3E	10B	0.074F	0.12B	0.88B		2	8C	36	15	36
0.1 - 0.15		1.3E		0.065F	0.108B	0.89B		5	8C	31	16	40
0.15 - 0.2		1.2E		0.052F	0.109B	0.69B		1	7C	26	10	54
0.2 - 0.3			1B	0.034F		0.55B						
0.3 - 0.55		0.67E		0.031F	0.063B	0.5B		1	5C	25	15	56
0.55 - 0.6	0.84C			0.036F	0.063B	0.55B		4	4C	25	13	56
0.6 - 0.9	3.5C			0.03F		0.51B						
0.9 - 1.12	5.6C			0.024F	0.031B	0.51B		14	4C	27	13	49
1.12 - 1.2	3.3C			0.076F	0.022B	0.93B		15	4C	36	16	39
1.2 - 1.34	1.1C			0.27F		2.2B						
1.34 - 1.5	0.42C	;		0.16F		1.1B						
Depth	COLE		Gravi	metric/Volu	metric Wate	r Content	s		K sa	t I	K unsat	:
		Sat.	0.05 Bar	0.1 Bar 0).5 Bar 1	Bar §	5 Bar 1	5 Bar				
m				g/g -	m3/m3				mm/	h	mm/h	
0 - 0.05												
0.05 - 0.1												
01-015												

 $\begin{array}{c} 0.05 - 0.1\\ 0.1 - 0.15\\ 0.15 - 0.2\\ 0.2 - 0.3\\ 0.3 - 0.55\\ 0.55 - 0.6\\ 0.6 - 0.9\\ 0.9 - 1.12\\ 1.12 - 1.2\\ 1.2 - 1.34\\ 1.34 - 1.5 \end{array}$

Project Name:	NAR		
Project Code:	NAR	Site ID:	B581
Agency Name:	CSIRO Divi	sion of Soils (C	QLD)

Laboratory Analyses Completed for this profile

10A NR	Total element - S(%) - Not recorded
15 NR CA	Exch. basic cations (Ca++) - meg per 100g of soil - Not recorded
15 NR H	Hydrogen Cation - meg per 100g of soil - Not recorded
15 NR K	Exch. basic cations (K++) - meg per 100g of soil - Not recorded
15 NR MG	Exch. basic cations (Mg++) - meg per 100g of soil - Not recorded
15 NR NA	Exch. basic cations (Na++) - meg per 100g of soil - Not recorded
17A NR	Total element - K(%) - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
9G BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)
P10 GRAV	Gravel (%)
P10 NR C	Clay (%) - Not recorded
P10 NR CS	Coarse sand (%) - Not recorded
P10 NR FS	Fine sand (%) - Not recorded
P10 NR Z	Silt (%) - Not recorded
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Observation ID: 1