Proje	ct Name: ct Code: cy Name:	Regional REG Si CSIRO Division of S	te ID: T166 Soils (QLD)	Ok	oservation ID:	1	
<u>Site Iı</u> Desc.	nformatior By:	<u>)</u> R.F. Isbell	Locality:			turnoff into Glendhu KM north of road crossi	ing Glendhu
		14/10/70 Sheet No. : 7961 1:100 145.091666666667 -18.38333333333333	Elevation: 0000 Rainfall: Runoff: Drainage:		No Data 0 Very slow Moderately well	drained	
Geolo Expos Geol.	ureType:	Undisturbed soil core Czm	Conf. Sub. Substrate			ata sturbed soil core, 1.8 m	deep,Basalt
Morph Elem. Slope:	ope Class: . Type: Type:	Level plain <9m <1% Flat Plain 0 %	Pattern Ty Relief: Slope Cate Aspect:		Plain 0 metres Level No Data		
Surfa Erosi		ndition (dry): Hardse	tting				
Austra Ferric	Eutrophic Br	assification: rown Kandosol		•	ig Unit: al Profile Form Soil Group:	N/A : Gn3.22 No suitable group)
<u>Site D</u> Veget	<u>)isturbanc</u> ation:	e: No effective disturban Low Strata - Tussock	grass, 0.51-1m, Mid-c	lense. *S	pecies includes ·	None recorded leptophleba, Eucalyptu	s crebra,
Profil	ce Coarse e Morphol		-				
A11	0 - 0.1 m	grade of structure		ry; Strong	consistence; M	Dry); ; Clay loam (Heav any (20 - 50 %), Ferrug ange to -	
A12	0.1 - 0.2 ı	grade of structure		ry; Strong	consistence; M	/); ; Clay loam (Heavy); any (20 - 50 %), Ferrug aange to -	
B1	0.2 - 0.3 ı	grade of structure	, 2-5 mm, Granular; Fe	ew (<1 pe	r 100mm2) Fine	YR4/6-Dry); ; Light clay (1-2mm) macropores, 5 mm), Nodules; Gradua	Dry;
B21	0.3 - 0.6 ı	Weak grade of st Fine (1-2mm) mad	ructure, 5-10 mm, Ang cropores, Dry; Strong o	gular bloc	ky; Smooth-ped ce; 2-10%, fine g	YR4/6-Dry); ; Light mec fabric; Few (<1 per 100 gravelly, 2-6mm, rounde n (2 -6 mm), Nodules; (0mm2) ed,
B21	0.6 - 0.9 ı	Faint; , 2-10% , Fa Smooth-ped fabric	aint; Light medium clay ; Few (<1 per 100mm	/; Weak g 2) Fine (1	rade of structure I-2mm) macropo	YR4/6-Dry); , 5YR46, 2 a, 5-10 mm, Angular blo ores, Moderately moist; Nodules; Gradual char	ocky; Very firm
B22	0.9 - 1.2 ı	grade of structure	e, 5-10 mm, Angular b , Moderately moist; Ve	locky; Sm	nooth-ped fabric;	YR4/6-Dry); ; Medium c Few (<1 per 100mm2) y (20 - 50 %), Ferruging	Fine (1-
B22	1.2 - 1.5 ı	grade of structure 2mm) macropores	e, 5-10 mm, Angular b	locky; Sm ery firm c	nooth-ped fabric; onsistence; Man	YR4/6-Dry); ; Medium c Few (<1 per 100mm2) y (20 - 50 %), Ferrugina	Fine (1-

Project Name:	Regional				
Project Code:	REG	Site ID:	T166	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (C	LD)		

Dark yellowish brown (10YR4/4-Moist); Dark yellowish brown (10YR4/6-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Ferromanganiferous, , Nodules; Clear change to -1.5 - 1.8 m

вс 1.8 - 2 m

Morphological Notes BC

Soft w'd BA with areas of brown clay decreasing with depth:

Observation Notes SURFACE HAS 20-50% <4MM FE NODULES:

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Site Notes

GLENDHU

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Observation ID: 1

Laboratory Test Results:

Depth	рН	1:5 EC	E	changeable	e Cations		Exchangeable	CEC	ECEC	ESP
		С	а	Mg	κ	Na	Acidity			
m		dS/m				Cmol	(+)/kg			%
0 - 0.1	6.4A	0.047A	12B	4	0.83	0.05				
0.1 - 0.2	6.4A	0.038A	8.3B	3.4	0.42	0.05				
0.2 - 0.3	6.3A	0.038A	7.8B	3.4	0.34	0.05				
0.3 - 0.6	6.3A	0.032A	6.8B	3.4	0.14	0.06				
0.6 - 0.9	6.6A	0.023A	5.5B	3.8	0.06	0.05				
0.9 - 1.2	6.7A	0.026A	5.2B	5	0.04	0.07				
1.2 - 1.5	6.6A	0.026A	4.9B	5.9	0.06	0.09				
1.5 - 1.8	6.6A	0.023A								
1.8 - 2		0.023A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Densitv	Pa GV	rticle CS	Size FS	Analysis Silt	s Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.57D	42B	0.16A	0.09A	0.25A		22	24A	14	21	40
0.1 - 0.2		0.54D	3B	0.082A	0.04A	0.24A		10	17A	14	24	49
0.2 - 0.3		0.35D	3B		0.03A			18	17A	12	17	57
0.3 - 0.6		0.22D	4B	0.057A	0.02A	0.17A		22	14A	11	18	57
0.6 - 0.9			5B					28	18A	10	19	59
0.9 - 1.2		0.13D	10B	0.069A		0.12A		20	14A	10	14	65
1.2 - 1.5			10B					20	14A	10	18	63
1.5 - 1.8		0.09D						8	7A	16	20	57
1.8 - 2				0.031A		0.14A		9	15A	28	20	37
Depth	COLE		Gravi	metric/Volu	metric Wate	er Content	s		K sa	ıt	K unsa	t

Depth	COLE		Gravimetric/volumetric water Contents				r sat	k unsat		
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	ˈɡ- m3/m3	3			mm/h	mm/h

0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.6 0.6 - 0.9 0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2

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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/HClO4 Digest
13C1 FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
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 (%)
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_ls	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction