Projec	et Name: et Code: ey Name:	Regional REG Site ID: CSIRO Division of Soils (6		)bservatio	on ID: 1		
Site In	Site Information						
Desc. E	By:	G.G. Murtha	Locality:		orth of Hervey's Range Beef Road along track		
Easting	ef.: ng/Long.: g/Lat.:	north from gate about .8KM east of Longo16/10/69Elevation:34 metresSheet No. : 82591:100000Rainfall:1020146.616666666667Runoff:Very slow-19.3Drainage:No Data					
<u>Geolo</u> Exposi Geol. R	ireType:	Undisturbed soil core QA	Conf. Sub. is Parent. Mat.: Substrate Material:		No Data Undisturbed soil core, Unconsolidated material (unidentified)		
Land I Rel/Slo Morph. Elem. 1 Slope:	pe Class: Type:	Level plain <9m <1% Flat Plain 0 %	Pattern Type: Relief: Slope Category: Aspect:	Alluvial p No Data Level No Data	lain		
<u>Surfac</u>	e Soil Co	ndition (dry): Hardsetting					
<u>Erosic</u> Soil C	o <u>n:</u> Iassificati	on					
Vertic S	Subnatric Gr	-	Princi Great	ing Unit: ipal Profile Soil Grou			
		<b>e:</b> No effective disturbance other		ed animals			
Vegeta			0 0 ,		ludes - Heteropogon contortus		
		Tall Strata - Tree, 12.01-20m Eucalyptus tessellaris	, Very sparse. *Specie	s includes	- Eucalyptus drepanophylla, Eucalyptus papuana,		
<u>Surfac</u>	e Coarse	Fragments: No surface coars	e fragments				
	Morphol						
A1A2j	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); Dark grey (10YR4/1-Dry); ; Clay loam; Strong grade of structure, 2-5 mm, Angular blocky; Rough-ped fabric; Dry; Rigid consistence; Common (10 - 20 %), Ferromanganiferous, Coarse (6 - 20 mm), Nodules; Sharp change to -					
B21	0.1 - 0.2 r	n Dark grey (10YR4/1-Moist); Dark grey (10YR4/1-Dry); ; Heavy clay; Strong grade of structure, 10- 20 mm, Angular blocky; Smooth-ped fabric; Dry; Rigid consistence; Very few (0 - 2 %), Calcareous, Coarse (6 - 20 mm), Nodules;					
B22	0.2 - 0.3 r	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Dry; Rigid consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules;					
B23	0.3 - 0.6 r	<ul> <li>Dark grey (5Y4/1-Moist); ; Heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry;</li> <li>Rigid consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Many</li> <li>(20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Nodules;</li> </ul>					
B24	0.6 - 0.9 r	Dark greyish brown (2.5Y4/2-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Very strong consistence; Very few (0 - 2 %), Ferromanganiferous, Medium (2 -6 mm), Nodules; Many (20 - 50 %), Calcareous, Very coarse (20 - 60 mm), Nodules;					
B24	0.9 - 1.2 r	Greyish brown (2.5Y5/2-Moist); ; Heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Dry; Rigid consistence; Very few (0 - 2 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Nodules; Diffuse change to -					
B25	1.2 - 1.5 r	Greyish brown (2.5Y5/2-Moist); , 7.5YR54, 2-10% , 0-5mm, Faint; , 2-10% , 0-5mm, Faint; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Dry; Rigid consistence; Very few (0 - 2%), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Few (2 - 10%), Calcareous, Coarse (6 - 20 mm), Nodules; Diffuse change to -					
B25	1.5 - 1.8 r		of structure, 5-10 mm	, Angular b	Distinct; , 10-20% , 0-5mm, Distinct; locky; Dry; Very firm consistence; Few ;;		

Projec	ct Code: RE	gional :G Site ID: T107 Observation ID: 1 SIRO Division of Soils (QLD)
B25	1.8 - 2.1 m	Greyish brown (2.5Y5/2-Moist); , 5YR46, 10-20% , 0-5mm, Prominent; , 10-20% , 0-5mm, Prominent; Heavy clay; Strong grade of structure, 5-10 mm, Angular blocky; Rough-ped fabric; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence;
BC	2.1 - 2.35 m	Dark greyish brown (10YR4/2-Moist); , 5YR56, 10-20% , 0-5mm, Distinct; , 10-20% , 0-5mm, Distinct; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Dry; Rigid consistence;
BC	2.35 - 2.7 m	Brown (10YR4/3-Moist); , 10YR63, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Rigid consistence; , Moderately cemented, Massive;
	2.7 - 3 m	Brown (10YR4/3-Moist); , 10YR63, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy medium clay; Massive grade of structure; Rigid consistence; Common (10 - 20 %), Ferromanganiferous, , Soft segregations;
D	3 - 3.45 m	Dark yellowish brown (10YR4/4-Moist); , 10YR52; , 10YR56; Sandy clay loam; Massive grade of structure; Many (>5 per 100mm2) Fine (1-2mm) macropores, Dry; Rigid consistence; , Moderately cemented, Massive; Gradual change to -
	3.45 - 4.65 m	Dark yellowish brown (10YR4/4-Moist); , 10YR52; Sandy medium clay (Light); Moderate grade of structure, 2-5 mm, Angular blocky; Massive grade of structure; Firm consistence; 2-10%, Quartz, coarse fragments; Few (2 - 10 %), Ferromanganiferous, , Soft segregations; Gradual change to -
	4.65 - 4.9 m	Light yellowish brown (10YR6/4-Moist); , 10YR53; , 10YR62; Fine sand; Massive grade of structure; Weak consistence;

# Morphological Notes

Observation Notes 150-180CM SOME COARSE SLICKEN SIDES TO STRUCTURAL UNITS:465-490CM WELL SORTED VERY FINE SAND:

## Site Notes

HERVEY'S RANGE

Project Name:	Regional				
Project Code:	REG	Site ID:	T107	Observation ID:	1
Agency Name:	<b>CSIRO</b> Division	of Soils (C	LD)		

## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			changeable	CEC	ECEC	E	ESP
m		dS/m	Ca	Mg	к	Na Cmol (+)/k	Acidity g			•	%
0 - 0.1 0.1 - 0.2	6.8A 7.6A	0.08A 0.086A		9.6	0.16	1.5		23.4C		6	6.41
0.2 - 0.3 0.3 - 0.6 0.6 - 0.9	8A 8.9A 9A	0.127A 0.41A 0.678A									
0.9 - 1.2 1.2 - 1.5	8.8A 8.5A	0.72A 0.55A									
1.5 - 1.8 1.8 - 2.1 2.1 - 2.35	8.4A 8.4A 8.9A	0.416A 0.288A 0.258A									
2.35 - 2.7	8.9A	0.238A 0.086A									
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV CS		Analysis Silt	
m	%	%	mg/kg	%	%	%	Mg/m3		%		
0 - 0.1		1.18D	4A 7B		0.1	A					
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 - 2.1											
2.1 - 2.35 2.35 - 2.7			<2A								
Depth	COLE	Sat.	Grav 0.05 Bar	vimetric/Vo 0.1 Bar	lumetric W 0.5 Bar	ater Contei 1 Bar		K Bar	sat	K unsat	:
m				g/9	g-m3/m3	3		m	m/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											

0.9 - 1.2 1.2 - 1.5 1.5 - 1.8 1.8 - 2.1 2.1 - 2.35 2.35 - 2.7

Project Name:	Regional		
Project Code:	REG	Site ID:	T107
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

## Observation ID: 1

## Laboratory Analyses Completed for this profile

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
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)