Project	t Code:	Regional REG Site ID: CSIRO Division of Soils (Q	-	Observation ID:	1
Desc. B Date De Map Re Northin Easting	sc.: 23 f.: S g/Long.: 14 /Lat.: -1	I.G. Cannon 3/10/86 heet No. : 8058 1:100000 45.76111111111 9.677777777778	Locality: Elevation: Rainfall: Runoff: Drainage:	`HILLGROVE' E(No Data 0 No Data No Data	COSAT SITE
<u>Geolog</u> Exposu Geol. Re	reType: S	oil pit Tqv	Conf. Sub. is Par Substrate Materi		
Morph. Elem. Ty Slope:	pe Class: L Type: N ype: P 0	evel plain <9m <1% lo Data Plain %	Pattern Type: Relief: Slope Category: Aspect:	Plain No Data Level No Data	
Surface Erosio		dition (dry): Soft			
	assification	<u>n</u>			
Haplic E ASC Co All nece	, ,	l Ferrosol ical data are available.	Princ Grea	oing Unit: cipal Profile Form: t Soil Group:	N/A Uf5 Euchrozem
Site Dis Vegeta		No effective disturbance. Natur	al		
vegeta	<u>uon.</u>	Tall Strata - Tree, 12.01-20m, S	Sparse. *Species in	cludes - Eucalyptus	drepanophylla
	e Coarse F				
A A	<u>Morpholog</u> 0 - 0.1 m				e, 2-5 mm, Subangular blocky;
B2	0.1 - 0.2 m	Dark reddish brown (2.5YR of structure, 10-20 mm, Sut Manganiferous, Medium (2	bangular blocky; Mo	oist; Very weak cons	
	0.2 - 0.4 m	Dark reddish brown (2.5YR Polyhedral; Weak consister Few, fine (1-2mm) roots;			
	0.4 - 0.7 m	Red (2.5YR4/8-Moist); ; Me consistence; Few (2 - 10 %			
	0.7 - 1 m	Red (2.5YR4/8-Moist); ; Me Weak consistence; Few (2	edium clay; Strong g - 10 %), Manganife	rade of structure, 10 rous, Medium (2 -6 r)-20 mm, Angular blocky; nm), Nodules;
	1 - 1.3 m	Red (2.5YR4/6-Moist); ; Me Weak consistence; Few (2			
	1.3 - 1.6 m	Red (2.5YR4/6-Moist); ; Me Weak consistence; Few (2			
	1.6 - 1.9 m	Reddish brown (2.5YR4/4-N blocky; Weak consistence;			tructure, 10-20 mm, Angular n (2 -6 mm), Nodules;
BC	1.9 - 2.1 m	Reddish brown (2.5YR4/4-M Distinct; Medium heavy clay firm consistence; Few (2 -	y; Moderate grade o	of structure, 10-20 m	m, Angular blocky; Moist; Very
	2.1 - 2.2 m	. ,			

Morphological Notes

Observation Notes MINOR COMPONENT OF GRAVELS IS QUARTZ: MANGANESE STAINING THROUGHOUT SOIL: MOTTLING AT BASE OF PROFILE IS W'D BASALT: LARGE BOULDERS TO 400MM AT 40CM DEPTH: TOP 20CM OF SOIL WAS WET WHEN SAMPLED

Project Name:	Regional		
Project Code:	REG	Site ID:	T473
Agency Name:	CSIRO Division	of Soils (Q	LD)

Observation ID: 1

Site Notes HILLGROVE

Project Name:	Regional			
Project Code:	REG	Site ID:	T473	Observation ID:
Agency Name:	CSIRO Division	of Soils (C	(LD)	

Laboratory Test Results:

Depth	рН	1:5 EC	Exc Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	, and a second se	ing	R	Cmol				%
0 - 0.1	6.3A	0.05A	13H	5.93	1.09	0.07		17.3A 21C	20.1F	0.40 0.33
0.1 - 0.2	6.6A	0.04A								
0.2 - 0.4	6.8A	0.04A	10.4H	5.04	0.41	0.19		10.5A 18C	16F	1.81 1.06
0.4 - 0.7	6.8A	0.04A								
0.7 - 1	7A	0.04A	8.57H	5.1	0.77	0.06		8.9A	14.5F	0.67
1 - 1.3	7.2A	0.03A								
1.3 - 1.6	7.4A	0.03A	12.3H	9.28	0.4	0.34		13.1A 15C	22.3F	2.60 2.27
1.6 - 1.9 1.9 - 2.1 2.1 - 2.2	7.6A 7.7A 6.6A	0.03A 0.03A 0.04A								

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle	Size A	nalysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
			3 3				J					
0 - 0.1		1.52C	22A		0.08/	4		1	13A	18	23	46
			17B									
0.1 - 0.2		0.96C	10A					2	12A	10	22	55
			5B									
0.2 - 0.4			9A					2	11A	8	18	64
			3B									
0.4 - 0.7								5	12A		9	73
0.7 - 1			10A					4	15A	6	9	70
			3B									
1 - 1.3								3	11A		10	72
1.3 - 1.6								2	7A	8	12	73
1.6 - 1.9								1	4A	8	14	74
1.9 - 2.1								0	17A	13	14	56
2.1 - 2.2												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3	1 Bar B	5 Bar	15 Bar	mm/h	mm/h
0 - 0.1										
0.1 - 0.2										
0.2 - 0.4										
0.4 - 0.7										
0.7 - 1										
1 - 1.3										
1.3 - 1.6										
1.6 - 1.9										

1.6 - 1.9 1.9 - 2.1

2.1 - 2.2

Project Name:	Regional		
Project Code:	REG	Site ID:	T473
Agency Name:	CSIRO Divisio	on of Soils (C	QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

13C1_FE 15A2_CEC 15D1_CEC 15E1_CA 15E1_K	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach 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
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA 15J1	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Effective CEC
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
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)
9H1	Phosphate retention
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 (%)