Site	Inforr	nation

	esc.:	M. DeCorte 09/10/90 Sheet No. : 7959 7897817 AMG zone: 289763 Datum: AG	90 Elevation: 460 metres No. : 7959 GPS Rainfall: No Data 17 AMG zone: 55 Runoff: Moderately ra		ly rapid				
<u>Geolo</u> Exposi Geol. F	ureType:	No Data No Data		Conf. Sub. is Parent. Mat.: Substrate Material:			No Data Undisturbed soil core, Detrital sedimentary rock (unidentified)		
	ope Class: . Type: Type:	Undulating rises 9-3 Upper-slope Hillslope 2 %	Slope Category: Very ger		No Data	ntly sloped			
Surfac	<u>ce Soil Co</u>	ndition (dry): Ha	ardsetting						
Erosio	on:								
Soil C	lassificati	<u>on</u>							
laplic		assification: ed Chromosol Thin G deep	Fravelly Clay-lo			ng Unit: bal Profile	Form:	N/A Dr2.12	
ASC C	Confidence		ble.		Great \$	Soil Group):	Non-calcic brown soil	
	ation:	Low Strata - Tuss Dichanthium serie						teropogon contortus, Themeda triandra ecies includes - Eucalyptus	
Surfac		Fragments: 10-20					-	ptus crebra, Eucalyptus papuana al sedimentary rock (unidentified)	
Surfac	ce Coarse	Tall Strata - Tree, Fragments: 10-20 ogy Dark reddish I blocky; Smod consistence; ,	0%, coarse gra brown (5YR3/3 oth-ped fabric;	3-Moist); ; Cla Many (>5 per ; , Gypseous	nm, rour ly loam; r 100mr	nded tabula Weak gra m2) Fine (1	ar, Detrita de of stru -2mm) n		
Surfac Profile	ce Coarse e Morphol	Tall Strata - Tree, Fragments: 10-20 Ogy Dark reddish I blocky; Smod consistence; , roots; Abrupt, m Reddish brow Strong grade Fine (1-2mm) dispersed, De faces or walls	brown (5YR3/3 oth-ped fabric; , Calcareous, , , Smooth chang vn (5YR4/4-Mo of structure, 20 macropores, I etrital sediment	avelly, 20-60m 3-Moist); ; Cla Many (>5 per ; , Gypseous ge to - ist); ; Medium 0-50 mm, Ang Dry; Very firm ary rock (unic inent; , Calcar	nm, rour y loam; r 100mr , , ; Fiel clay; S gular blc consist dentifiec reous, ,	Nded tabula Weak gra m2) Fine (1 d pH 6.5 (F Gtrong grad ocky; Smoo tence; 0-29 d), coarse f ; , Gypseo	ar, Detrita de of stru -2mm) n Raupach, e of struc oth-ped fa 6, fine gr ragments	al sedimentary rock (unidentified) ucture, 10-20 mm, Subangular nacropores, Dry; Very firm	
Surfac Profile A1 B1	ce Coarse e Morphol 0 - 0.05 n	Tall Strata - Tree, Fragments: 10-20 Ogy Dark reddish I blocky; Smod consistence; , roots; Abrupt, m Reddish brow Strong grade Fine (1-2mm) dispersed, De faces or walls Many, fine (1- m Red (2.5YR4/ grade of struc Fine (1-2mm) dispersed, De faces or walls	brown (5YR3/3 oth-ped fabric; , Calcareous, , , Smooth chang <i>n</i> (5YR4/4-Moi of structure, 20 macropores, I etrital sediment coated, promi -2mm) roots; C (6-Moist); ; Med cture, 10-20 mr macropores, I etrital sediment	Avelly, 20-60m 3-Moist); ; Cla Many (>5 pel ; , Gypseous ge to - ist); ; Medium 0-50 mm, Ang Dry; Very firm ary rock (unic inent; , Calcar Clear, Smooth dium clay; Str m, Subangula Dry; Very firm tary rock (unic ninent; , Calcar	y loam; r 100mr , ; Fiel clay; S gular blc consist dentifiec reous, , change ong gra r blocky consist dentifiec	Weak gra m2) Fine (1 d pH 6.5 (F Strong grad ocky; Smoot tence; 0-29 d), coarse f ; , Gypseo e to - ade of struct /; Smooth- tence; 0-29 d), coarse f	ar, Detrita de of stru -2mm) n Raupach, e of struc th-ped fa 6, fine gr ragments us, , ; Fie sture, 20- bed fabri 6, fine gr ragments	al sedimentary rock (unidentified) ucture, 10-20 mm, Subangular nacropores, Dry; Very firm , 0.05); Many, fine (1-2mm) cture, 50-100 mm, Prismatic; abric; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Few cutans, <10% of ped	
Surfac Profile A1 31 321t	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.05 n 0.05 - 0.3	Tall Strata - Tree, Fragments: 10-20 Ogy Dark reddish I blocky; Smod consistence; , roots; Abrupt, m Reddish brow Strong grade Fine (1-2mm) dispersed, De faces or walls Many, fine (1- m Red (2.5YR4/ grade of struc Fine (1-2mm) dispersed, De faces or walls Abrupt, Smoo 2 m ; , Polyhedral;	brown (5YR3/3 oth-ped fabric; , Calcareous, , , Smooth chanç <i>m</i> (5YR4/4-Mo of structure, 2(macropores, I etrital sediment s coated, promi -2mm) roots; C /6-Moist); ; Meq cture, 10-20 mr macropores, I etrital sediment s coated, prom macropores, I etrital sediment s coated, prom th change to - ; 90-100%, coa	Avelly, 20-60m 3-Moist); ; Cla Many (>5 per ; , Gypseous ge to - ist); ; Medium 0-50 mm, Ang Dry; Very firm tary rock (unic inent; , Calcar chium clay; Str m, Subangula Dry; Very firm tary rock (unic ninent; , Calcar arse gravelly,	y loam; r 100mr , ; Fiel a clay; S gular blo consist dentifiec reous, , change ong gra r blocky consist dentifiec areous, 20-60m	Weak gra m2) Fine (1 d pH 6.5 (f Strong grad ocky; Smoo tence; 0-29 d), coarse f ; , Gypseo e to - ade of struc <i>y</i> ; Smooth- tence; 0-29 d), coarse f an, coarse f m, angula	ar, Detrita de of stru -2mm) n Raupach, e of struc th-ped fa 6, fine gr ragments us, , ; Fie sture, 20- bed fabrio 6, fine gr ragments bous, , ; F	al sedimentary rock (unidentified) ucture, 10-20 mm, Subangular nacropores, Dry; Very firm , 0.05); Many, fine (1-2mm) cture, 50-100 mm, Prismatic; abric; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Few cutans, <10% of ped eld pH 6 (Raupach, 0.3); 50 mm, Prismatic; Strong c; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Many cutans, >50% of ped	
Surfac Profile	ce Coarse e Morphol 0 - 0.05 n 0.05 - 0.3 0.3 - 0.55	Tall Strata - Tree, Fragments: 10-20 Ogy Dark reddish I blocky; Smod consistence; , roots; Abrupt, m Reddish brow Strong grade Fine (1-2mm) dispersed, De faces or walls Many, fine (1- m Red (2.5YR4/ grade of struc Fine (1-2mm) dispersed, De faces or walls Abrupt, Smoo 2 m ; , Polyhedral; rock (unidentii - 4 m Brown (7.5YR Many (>5 pe consistence; 0 (unidentified),	brown (5YR3/3 oth-ped fabric; , Calcareous, , , Smooth chang <i>m</i> (5YR4/4-Mo of structure, 2() macropores, I etrital sediment s coated, promi -2mm) roots; C /6-Moist); ; Mea cture, 10-20 mr macropores, I etrital sediment ls coated, promi oth change to - ; 90-100%, coa ified), coarse fr R4/4-Moist); ; M r 100mm2) Ve 0-2%, fine grave	Avelly, 20-60m 3-Moist); ; Cla Many (>5 per ; , Gypseous ge to - ist); ; Medium 0-50 mm, Ang Dry; Very firm tary rock (unicr inent; , Calcar dium clay; Str n, Subangula Dry; Very firm tary rock (unicr ninent; , Calcar arse gravelly, ragments; , Ca Medium clay; S ry fine (0.075 velly, 2-6mm, ents; Many cu	y loam; r 100mr , ; Fiel a clay; S gular blo consist dentifiec reous, , change ong gra r blocky consist dentifiec areous, 20-60m alcareou Strong g -1mm) angular	Weak gra m2) Fine (1 d pH 6.5 (f Strong grad ocky; Smoo tence; 0-29 d), coarse f ; , Gypseo e to - ade of struc <i>y</i> ; Smooth- tence; 0-29 d), coarse f m, angula us, , ; , Gyp grade of str macropore r, disperser 50% of peo	ar, Detrita de of stru -2mm) n Raupach, e of struc th-ped fa 6, fine gr ragments us, , ; Fie sture, 20- bed fabrid 6, fine gr ragments bous, , ; F r, undistu bseous, , ucture, 1 s, Moder d, Detrita d faces o	al sedimentary rock (unidentified) ucture, 10-20 mm, Subangular hacropores, Dry; Very firm , 0.05); Many, fine (1-2mm) cture, 50-100 mm, Prismatic; abric; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Few cutans, <10% of ped eld pH 6 (Raupach, 0.3); 50 mm, Prismatic; Strong c; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Many cutans, >50% of ped ew, very fine (0-1mm) roots; urbed, Detrital sedimentary	
Surfac Profile A1 B1 B21t B31	<u>ce Coarse</u> <u>e Morphol</u> 0 - 0.05 n 0.05 - 0.3 0.3 - 0.55 0.55 - 0.6	Tall Strata - Tree, Fragments: 10-20 Ogy Dark reddish I blocky; Smod consistence; , roots; Abrupt, m Reddish brow Strong grade Fine (1-2mm) dispersed, De faces or walls Many, fine (1- m Red (2.5YR4/ grade of struc Fine (1-2mm) dispersed, De faces or walls Abrupt, Smoo 2 m ; , Polyhedral; rock (unidentified), Calcareous, ,	brown (5YR3/3 oth-ped fabric; , Calcareous, , , Smooth chang <i>m</i> (5YR4/4-Mo of structure, 2() macropores, I etrital sediment s coated, promi -2mm) roots; C /6-Moist); ; Mea cture, 10-20 mr macropores, I etrital sediment ls coated, promi oth change to - ; 90-100%, coa ified), coarse fr R4/4-Moist); ; M r 100mm2) Ve 0-2%, fine grave	Avelly, 20-60m 3-Moist); ; Cla Many (>5 per ; , Gypseous ge to - ist); ; Medium 0-50 mm, Ang Dry; Very firm cary rock (unic inent; , Calcar Clear, Smooth dium clay; Str m, Subangula Dry; Very firm ary rock (unic ninent; , Calcar arse gravelly, ragments; , Ca Medium clay; S very fine (0.075 velly, 2-6mm, ents; Many cu , ; Field pH 8	y loam; r 100mr , , ; Fiel clay; S gular blc consist dentifiec reous, , change ong gra r blocky consist dentifiec areous, 20-60m alcareou Strong g -1mm) a angular itans, > (Raupa	Weak gra m2) Fine (1 d pH 6.5 (f Strong grad ocky; Smoo tence; 0-29 d), coarse f ; , Gypseo e to - ade of struc /; Smooth- tence; 0-29 d), coarse f , ; , Gypseo ade of struc /; Smooth- tence; 0-29 d), coarse f , ; , Gypseo ade of struc /; Smooth- tence; 0-29 d), coarse f smooth- tence; 0-29 d), c	ar, Detrita de of stru -2mm) n Raupach, e of struc th-ped fa 6, fine gr ragments us, , ; Fie ture, 20- bed fabric 6, fine gr ragments ous, , ; Fie r, undistu seous, , s, Moder d, Detrita d faces o lear, Smo	al sedimentary rock (unidentified) ucture, 10-20 mm, Subangular hacropores, Dry; Very firm , 0.05); Many, fine (1-2mm) cture, 50-100 mm, Prismatic; abric; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Few cutans, <10% of ped eld pH 6 (Raupach, 0.3); 50 mm, Prismatic; Strong c; Many (>5 per 100mm2) avelly, 2-6mm, angular, s; Many cutans, >50% of ped ew, very fine (0-1mm) roots; Irbed, Detrital sedimentary ; Abrupt, Smooth change to 0-20 mm; Smooth-ped fabric; ately moist; Very firm I sedimentary rock r walls coated, prominent; ,	

Site Notes

Laboratory Test Results:

Depth	рН	1:5 EC		nangeable Ng	e Cations K	E Na	xchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca r	vig	ĸ	Cmol (+)				%
0 - 0.05 0.05 - 0.3 0.62 - 0.74 0.74 - 1	7.1A 7A 7.5A 7.7A		12B 12J	8.5 9.2	0.67 0.1	0.05 0.1		22.91		0.44
Depth m	CaCO3 %	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Parti GV (cle Size CS FS %	Analysis Silt Clay
0 - 0.05 0.05 - 0.3 0.62 - 0.74 0.74 - 1										
Depth	COLE					Vater Conte			K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0.05 0.05 - 0.3 0.62 - 0.74 0.74 - 1										

Laboratory Analyses Completed for this profile

10B	Extractable sulfur(mg/kg) - Phosphate extractable sulfur
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
15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15N1	Exchangeable sodium percentage (ESP)
4A1	pH of 1:5 soil/water suspension