	ct Code: cy Name:	COL CSIRO Division	of Soils (QL	.0)				
Desc. I Date D Map Ro Northin Easting	Desc.: ef.: ng/Long.: g/Lat.:	R.F. Isbell 14/07/61 Sheet No. : 8456 1	:100000	Locality: Elevation: Rainfall: Runoff: Drainage:	No Data 0 Slow Imperfect	ly draine	d	
<u>Geolo</u> Exposi Geol. F	ureType:	Soil pit Puw		Conf. Sub. is Pare Substrate Materia		No Data Auger b	a ooring, 1.8 m deep,Cla	ау
Morph Elem. Slope:	ope Class: a. Type: Type:	Level plain <9m <1% No Data Plain 0 % ndition (dry): Cra		Pattern Type: Relief: Slope Category: Aspect:	Alluvial pl No Data No Data No Data	lain		
Erosic			loking					
Soil C	lassificati	on						
Epicalc	careous-Epił	assification: hypersodic Epipedal G	Grey Vertosol		ng Unit: pal Profile		N/A Ug5.25	
All nec Site D Vegeta pecies	Disturbance ation:	ytical data are availab <u>a:</u> No effective distur Tall Strata - Tusso	bance other th	han grazing by hoofe 6-0.5m, Closed or de			Grey clay des - Astrebla specie	s, Bothriochle
All nec Site D Vegeta pecies Surfac	cessary anal Disturbance tation:	ytical data are availab <u>a:</u> No effective distur Tall Strata - Tusso <u>Fragments:</u> No su <u>Dark greyish b</u>	bance other th ock grass, 0.26 Irface coarse fi orown (10YR4/ Loose consist	han grazing by hoofe 6-0.5m, Closed or de ragments /2-Moist); ; Heavy cl	ed animals ense. *Spec ay; Strong g	cies inclu grade of :	des - Astrebla specie	
All nec Site D Vegets pecies Surfac Profile AB	cessary anal Disturbance ation: ce Coarse e Morphole	ytical data are availab a: No effective distur Tall Strata - Tusso Fragments: No su Dark greyish b Granular; Dry; meter); Gradu Angular blocky	bance other th ock grass, 0.26 inface coarse fi prown (10YR4/ Loose consist al change to - orown (10YR4/ y; Dry; Strong o	han grazing by hoofe 6-0.5m, Closed or de ragments /2-Moist); ; Heavy cl. tence; Very few (0 - /2-Moist); ; Heavy cl. consistence; Very fe	ed animals ense. *Spec ay; Strong (2 %), Calca ay; Strong (cies inclu grade of a areous, ,	des - Astrebla specie structure, 2-5 mm,	3 (pH
All nec Site D Vegeta pecies Surfac Profile	cessary anal Disturbance tation: <u>ce Coarse</u> <u>e Morphole</u> 0 - 0.15 m	ytical data are availab 2: No effective distur Tall Strata - Tusso Fragments: No su Dark greyish b Granular; Dry; meter); Gradu 6 m Dark greyish b Angular blocky 8.8 (pH meter) 1 m Brown (10YR4 structure, 20-5	bance other th ock grass, 0.26 Irface coarse fi prown (10YR4/ Loose consist al change to - orown (10YR4/ y; Dry; Strong o); Gradual char 1/3-Moist); ; He 50 mm, Angula	han grazing by hoofe 6-0.5m, Closed or de ragments (2-Moist); ; Heavy cl. tence; Very few (0 - (2-Moist); ; Heavy cl. consistence; Very fe nge to - eavy clay; Weak gra ar blocky; Dry; Strong	ed animals ense. *Spec ay; Strong (2 %), Calca ay; Strong (ew (0 - 2 %) de of struct g consisten	grade of s areous, , grade of s , Calcare ure, Lent ce; Very	des - Astrebla specie structure, 2-5 mm, Nodules; Field pH 8.3 structure, 20-50 mm,	3 (pH pH of eous,
All nec Site D Vegeta pecies Surfac Profile AB	cessary anal <u>Disturbance</u> tation: <u>ce Coarse</u> <u>e Morphole</u> 0 - 0.15 m 0.15 - 0.4	ytical data are availab a: No effective distur Tall Strata - Tusso Fragments: No su Dark greyish b Granular; Dry; meter); Gradu: 6 m Dark greyish b Angular blocky 8.8 (pH meter) 1 m Brown (10YR4 structure, 20-5 , Nodules; Ve 2 m Brown (10YR4	bance other th ock grass, 0.26 inface coarse fil prown (10YR4/ Loose consist al change to - prown (10YR4/ y; Dry; Strong o); Gradual char 4/3-Moist); ; He 50 mm, Angula ery few (0 - 2 % 4/3-Moist); ; He 2 %), Calcareo	han grazing by hoofe 6-0.5m, Closed or de ragments (2-Moist); ; Heavy cl. tence; Very few (0 - (2-Moist); ; Heavy cl. consistence; Very fe nge to - eavy clay; Weak gra tr blocky; Dry; Strong (6), Gypseous, , Crys eavy clay; , Lenticula ous, , Nodules; Very	ed animals ense. *Spec ay; Strong (2 %), Calca ay; Strong (ew (0 - 2 %) de of struct g consisten stals; Field p ar; Moderate	cies inclu grade of a reous, , grade of a , Calcare ure, Lent ce; Very oH 7.9 (p ely moist	des - Astrebla specie structure, 2-5 mm, Nodules; Field pH 8.3 structure, 20-50 mm, eous, , Nodules; Field ticular; Strong grade o few (0 - 2 %), Calcard	3 (pH pH of eous, lange ce;
All nec Site D Veget: pecies Surfac Profile AB B2 B2	cessary anal <u>Disturbance</u> <u>e Coarse</u> <u>e Morphole</u> 0 - 0.15 m 0.15 - 0.4 0.61 - 0.9	ytical data are availab a: No effective distur Tall Strata - Tusso Fragments: No su Dark greyish b Granular; Dry; meter); Gradu 6 m Dark greyish b Angular blocky 8.8 (pH meter) 1 m Brown (10YR4 structure, 20-5 , Nodules; Ve 2 m Brown (10YR4 Very few (0 - 2 7.7 (pH meter) 2 m Dark yellowish	bance other the ock grass, 0.26 inface coarse fit prown (10YR4/ Loose consist al change to - orown (10YR4/ y; Dry; Strong of); Gradual chan (3-Moist); ; He 2 %), Calcareo); Gradual chan h brown (10YR m consistence	han grazing by hoofe 5-0.5m, Closed or de ragments (2-Moist); ; Heavy cl. tence; Very few (0 - (2-Moist); ; Heavy cl. consistence; Very fe nge to - bavy clay; Weak gra tr blocky; Dry; Strony 6), Gypseous, , Crys bavy clay; , Lenticula rus, , Nodules; Very nge to - 4/4-Moist); ; Heavy ; Few (2 - 10 %), Ca	ed animals ense. *Spec ay; Strong (2 %), Calca ay; Strong (2 %), Calca ay; Strong (2 %) de of struct g consisten stals; Field p ar; Moderati few (0 - 2 %) clay; Massi	cies inclu grade of s areous, , grade of s , Calcare ure, Lent ce; Very oH 7.9 (p ely moist %), Gypse ve grade	des - Astrebla specie structure, 2-5 mm, Nodules; Field pH 8.3 structure, 20-50 mm, eous, , Nodules; Field ticular; Strong grade of few (0 - 2 %), Calcard oH meter); Gradual ch ; Very firm consistence	3 (pH pH of eous, iange ke; I pH tely
All nec Site D Veget: pecies Surfac Profile AB B2 B2 B2	cessary anal <u>Disturbance</u> <u>ation:</u> <u>ce Coarse</u> <u>e Morphole</u> 0 - 0.15 rr 0.15 - 0.4 0.61 - 0.9 0.91 - 1.2	ytical data are availab a: No effective distur Tall Strata - Tusso Fragments: No su Dark greyish b Granular; Dry; meter); Gradu 6 m Dark greyish b Angular blocky 8.8 (pH meter) 1 m Brown (10YR4 structure, 20-5 , Nodules; Ve 2 m Brown (10YR4 Very few (0 - 2 7.7 (pH meter) 2 m Dark yellowish moist; Very firr pH 8.3 (pH meter) 8 m Dark yellowish	bance other the ock grass, 0.26 inface coarse fit prown (10YR4/ Loose consist al change to - prown (10YR4/ y; Dry; Strong of ; Gradual chan d/3-Moist); ; He 50 mm, Angula ery few (0 - 2 % 4/3-Moist); ; He 2 %), Calcareo); Gradual chan n brown (10YR m consistence eter); Gradual chan n brown (10YR	han grazing by hoofe 6-0.5m, Closed or de ragments (2-Moist); ; Heavy cl. tence; Very few (0 - (2-Moist); ; Heavy cl. consistence; Very fe nge to - eavy clay; Weak gra tr blocky; Dry; Strong (6), Gypseous, , Crys eavy clay; , Lenticula bus, , Nodules; Very nge to - 4/4-Moist); ; Heavy ; Few (2 - 10 %), Ca change to -	ed animals ense. *Spec ay; Strong (2 %), Calca ay; Strong (2 %), Calca ay; Strong (ew (0 - 2 %) de of struct g consisten stals; Field p ar; Moderatu few (0 - 2 %) clay; Massi alcareous, C clay; Massi	grade of s areous, , grade of s , Calcare ure, Leni ce; Very oH 7.9 (p ely moist %), Gypse ve grade Coarse (6 ve grade	des - Astrebla specie structure, 2-5 mm, Nodules; Field pH 8.3 structure, 20-50 mm, eous, , Nodules; Field ticular; Strong grade o few (0 - 2 %), Calcard H meter); Gradual ch ; Very firm consistence eous, , Crystals; Field of structure; Moderat 5 - 20 mm), Nodules; I	3 (pH pH of eous, lange ce; I pH tely Field

Observation Notes 0-15CM GRANULAR GRADING TO BLOCKY STRUCTURE. CLOSE CRACK PATTERN TO DEPTHS UP TO 60-90CM.

Site Notes

COLLINSVILLE

Project Name:	COL				
Project Code:	COL	Site ID:	B478	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (Q	LD)		

Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.15 0.15 - 0.46	8.3H 8.8H	0.04B 0.1B	29.2K	16.1	0.85	1.8	0.2D			
0.61 - 0.91	7.9H 7.7H	0.94B 1.68B	21.9K	17.1	0.72	9.4	0D			
1.22 - 1.52 1.52 - 1.78	8.3H 8.6H	0.58B 0.45B	19.4K	17.5	0.94	9.9	0D			
1.78 - 2.29	8.7H	0.32B								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	irticle	Size	Analysis	5
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.15 0.15 - 0.46	0.03C	0.55A	11C 8C	0.022F	0.073	В		0	2C	9	22	64
0.61 - 0.91 0.91 - 1.22	0.2C	0.4A	34C					0	1C	8	20	68
1.22 - 1.52 1.52 - 1.78	0.2C		160C	0.057F				0	3C	5	13	77
1.78 - 2.29	0.41C		250C	0.065F				0	17C	14	13	56

Depth	COLE		Grav	/imetric/Vo	olumetric W	ater Cont	ents		K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m				g/	/g - m3/m3	3			mm/h	mm/h

0 - 0.15 0.15 - 0.46 0.61 - 0.91 0.91 - 1.22 1.22 - 1.52 1.52 - 1.78 1.78 - 2.29

Project Name:	COL		
Project Code:	COL	Site ID:	B478
Agency Name:	CSIRO Di	vision of Soils (C	(LD)

Observation ID: 1

Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
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