## **RED GRADATIONAL CLAY LOAM ON CALCRETE**

General Description:

*Friable clay loam grading to a well structured red clay over calcrete or limestone* 



## Summary of Properties

Drainage:	Well drained. The soil rarely remains wet for more than a couple of days.									
Fertility:	Inherent fertility is high, as indicated by the exchangeable cation data. The moderately high clay content and very high organic matter status provide ample nutrient retention capacity. Copper concentration appears low at sampling site.									
pH:	Alkaline throughout.									
Rooting depth:	62 cm in pit.									
Barriers to root growth:										
Physical:	The calcrete restricts deeper root growth.									
Chemical:	There are no chemical limitations.									
Water holding capacity:	120 mm in root zone.									
Seedling emergence:	Satisfactory.									
Workability:	Firm surface is easily worked.									
<b>Erosion Potential</b>										
Water:	Low.									
Wind:	Low.									

## Laboratory Data

Depth cm	pH H <sub>2</sub> O	pH CaC1 <sub>2</sub>	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P	Avail. K	SO <sub>4</sub> -S mg/kg	Boron mg/kg	Trace Elements mg/kg (EDTA)			ng/kg	CEC cmol	Exc	hangea cmol	ESP	Ext Al		
							mg/ Kg	ing/κg			Cu	Fe	Mn	Zn	(1)/Kg	Ca	Mg	Na	K		ing/κg
Paddock	8.0	7.5	0	0.35	-	5.35	24	303	20.8	1.3	0.65	21	56.5	2.05	29*	26.4	1.32	0.25	0.88	-	0.8
0-21	8.2	7.3	0.7	0.17	-	4.45	10	162	9.0	1.0	1.51	107	364	2.13	35	30.6	0.95	0.57	0.48	1.6	1.0
21-46	8.2	7.3	0.1	0.07	-	1.67	5	210	5.5	0.6	0.27	64	150	0.81	27	24.3	0.65	0.29	0.58	1.0	0.9
46-62	8.3	7.4	0	0.08	-	1.25	4	185	4.9	0.7	0.20	56	127	0.74	29*	26.8	1.36	0.29	0.60	-	1.0
62-74	9.1	7.7	90	0.07	-	0.17	3	65	3.4	0.4	0.14	5	3.5	0.58	5	4.08	0.37	0.16	0.10	na	1.0

**Note:** Paddock sample bulked from cores (0-10 cm) taken around the pit.

CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements. \* CEC not measured. Value is sum of exchangeable cations which approximates CEC in neutral to alkaline soils.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC or estimated CEC.