

APPENDIX II – CHEMICAL DATA FOR SOIL PROFILES

**APPENDIX 11
PHYSICAL DATA FOR SOIL PROFILES**

Profile no. Soil description Parent material	Horizon	Field texture	Sample depth	Particle size distribution					Atterberg limits				Sample depth	Bulk density	Gravel	Water content			Macroporosity (Sat. - F.C.)	Available soil water capacity (F.C. - P.W.P.)	Calculated total porosity
				Gravel	Coarse sand	Fine sand	Silt	Clay	Liquid limit	Plastic limit	Plasticity index	Linear shrinkage				0cm tension	100cm tension	15 atm. equiv. tension			
																Saturation	Field capacity	Permanent wilting point			
927 Red calcareous sodic duplex soil Quaternary aeolian calcareous deposits overlying Tertiary deposits	A ₁	FSL	0-20	1	12	57	12	16					2-8	1.19	0	45	25	10	20	15	55
	A ₂	FSL	30-41	1	14	64	10	12					30-36	1.66	0	32	24	7	8	17	37
	B ₁	LC	60-82	3	8	28	4	58	64	19	45	17	60-66	1.70	0	36	30	24	6	6	36
928 Red calcareous sodic duplex soil Quaternary aeolian calcareous deposits overlying Ordovician granite	A ₁	L	0-10	0	14	36	24	24					2-8	1.48	1	44	28	16	16	12	44
	A ₂	LS	10-20	1	32	38	14	16					15-21	1.60	1	36	21	7	15	14	40
	B ₁	LC	60-82	2	20	27	14	36	65	18	47	17	50-56	1.65	1	-	-	31	-	-	38
929 Reddish brown calcareous sodic uniform clay soil Quaternary aeolian calcareous deposits overlying Ordovician granite	A	LC	0-10	0	19	38	13	27					2-8	1.37	3	50	33	22	17	11	49
	B ₂₁	SC	10-20	0	23	33	12	30					15-21	1.40	0	47	31	20	16	11	47
	B ₂₁	SC	20-30	1	29	38	12	21					40-46	1.41	0	49	38	32	11	6	47
	B ₂₂	LMC	30-60	1	17	25	6	50	59	19	40	18									
	B ₂₃	MC	90-120	2	14	22	2	48	74	19	55	23									
B ₂₃	LMC	180-210	3	16	28	4	46														

Field Texture abbreviations

S = sand FS = fine sand, COS = coarse sand, GCOS = gravelly coarse sand, LFS = loamy fine sand, LS = loamy sand, LCOS = loamy coarse sand, CF = loam FSL = fine sandy loam, SL = sandy loam, COSL = coarse sandy loam, SiL = silty loam, CL = clay loam, FSCL = fine sandy clay loam, SCL = clay SiC = silty clay, LC = light clay, SC = sandy clay, LMC = light medium clay, MC = medium clay, HC = heavy clay.