

Farmland at Childs Ercall – Soil Characterisation and Analysis

		Particle size distribution			Texture classification ^a			Properties			Macro Nutrients				
Averages		Sand	Silt	Clay	Soil Name			pH	OM	EC	Total N	P	Index	K	Index
		(2.00-0.063mm)	(0.063-0.002mm)	(<0.002mm)				water (1:2.5)	% w/w	µS/cm	% w/w	mg/l	^b	mg/l	^b
Total Site	Overall	78.7	11.1	10.3	Loamy Sand	Coarse	Light	7.0	2.0	2075	0.099	33.4	3	105.6	1
Top	Overall	79 The amazing weather and perfect ski conditions certainly h.1	11.6	9.3	Loamy Sand	Coarse	Light	7.3	2.0	2075	0.101	41.6	3	116.3	1
	0-10 cm	78.5	11.9	9.6	Loamy Sand	Coarse	Light	7.2	2.5	2088	0.124	44.6	4	153.9	2-
	10-25cm	78.8	11.8	9.5	Loamy Sand	Coarse	Light	7.2	2.4	2072	0.120	44.8	4	111.7	1
	25-50cm	80.2	11.2	8.7	Loamy Sand	Coarse	Light	7.4	1.1	2065	0.058	35.5	3	83.4	1
Bottom	Overall	78.3	10.5	11.3	Sandy Loam	Coarse	Light	6.7	2.0	2075	0.097	25.1	2	94.9	1
	0-10 cm	78.7	10.1	11.2	Sandy Loam	Coarse	Light	6.6	2.4	2088	0.118	29.0	3	138.7	2-
	10-25cm	78.4	10.6	11.0	Sandy Loam	Coarse	Light	6.5	2.4	2089	0.111	29.3	3	88.7	1
	25-50cm	78.6	10.0	11.4	Sandy Loam	Coarse	Light	7.0	1.1	2047	0.057	16.7	2	60.3	1

		Micro Nutrients										Heavy metals and potentially toxic elements										
Averages		Na	Ca	Mn	Mg	Index ^b	Fe	Cu	Zn	B	SO4	Total Cu	Total Zn	Total Pb	Total Cd	Total Hg	Total Ni	Total Cr	Total Mo	Total Se	Total As	Total F-
		mg/l	mg/l	mg/l	mg/l		mg/l	mg/l	mg/l	mg/l	mg/l	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Site	Overall	9.4	1004.4	4.8	50.9	1	65.7	5.3	5.1	0.5	26.7	9.3	35.5	15.1	0.34	<0.2	14.6	13.6	<1.0	0.1	4.9	21.0
Top	Overall	7.3	985.1	4.3	50.0	1	40.9	6.6	7.6	0.6	11.7	10.0	42.0	17.8	0.51	<0.2	14.6	13.6	<1.0	0.2	5.2	23.5
	0-10 cm	6.3	1070.9	5.4	55.3	2	48.4	9.0	8.7	0.6	11.3	11.6	48.4	21.4	0.18	<0.2	13.8	12.9	<1.0	0.2	5.4	25.0
	10-25cm	7.2	1077.8	5.1	53.0	1	48.5	8.0	10.4	0.7	10.0	11.2	49.2	20.3	0.71	<0.2	13.7	13.3	<1.0	0.2	5.3	28.1
	25-50cm	8.3	806.8	2.3	41.8	1	25.8	2.8	3.6	0.4	13.7	7.3	28.3	11.2	0.73	<0.2	16.5	17.6	<1.0	0.1	4.9	17.3
Bottom	Overall	11.5	1023.8	5.4	51.8	1	90.6	4.0	2.7	0.5	41.7	8.5	29.1	12.4	0.13	<0.2	14.6	13.7	<1.0	0.1	4.6	18.6
	0-10 cm	9.2	1020.5	4.8	51.0	1	78.4	4.0	3.1	0.5	37.7	9.2	31.4	13.8	0.14	<0.2	14.3	12.8	<1.0	0.1	4.7	19.6
	10-25cm	12.1	1048.8	6.8	52.0	1	121.8	4.4	3.4	0.6	61.4	9.4	31.9	13.9	0.13	<0.2	14.6	14.1	<1.0	0.1	4.6	20.2
	25-50cm	13.4	1021.4	3.8	55.0	1	54.1	2.2	1.3	0.4	27.3	6.9	21.8	8.2	0.11	<0.2	14.8	15.3	<1.0	0.1	4.5	16.7

^a: Classification following Natural England technical information note 037 (TIN 037).

^b: Nutrient Index (response to fertiliser): 1 = high; 2 = moderate; 3 = low; 4 = None.