Acid Sulfate Soils of Cairns, North Queensland

Volume 2

Appendix 1: Summarised Analytical Data

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Analytical Data Method Codes

Field Morphology Stummary	
Site ID	Borehole or site number
Hor No	Horizon number
Upp Depth	Upper depth of horizon
Low Depth	Lower depth of horizon
Soil Texture	Soil texture (codes according to McDonald et al. 1990)
Jar.	Indicates presence of Jarosite (J) in profile
Gyp.	Indicates presence of Gypsum (Y) in profile
Shell	Indicates presence of Shell (SS) in profile
Field pH	
Depth (m)	Depth at which pH_F and pH_{FOX} tests were conducted
pH_F (23Af)	pH measured in the field on saturated soil sample using pH electrode
pH_{FOX} (23Bf)	pH measured in the field – 30% peroxide reaction, pH electrode
Lab Sample	
No.	Sample number of sample taken for analysis
Upp Depth	Upper depth of sample taken for analysis
Low Depth	Lower depth of sample taken for analysis
Action Criteria	
Depth 1st Action Level	The depth category of the upper depth of the first horizon where the texture-based ASS action criteria is exceeded. 'S' denotes potential acidity for the respective depth categories.
Action Level Select %S	Pc, Pl or Ps indicates samples that have exceeded 0.1, 0.06 or 0.03 %S (ie. exceeded the ASS action criteria), for clays, loams and sands respectively. Note: These figures apply to disturbances up to 1000 m3; for disturbances greater than 1000 m3, the action criteria is 0.03 %S, regardless of texture

Suspension Peroxide Oxidation Combined Acidity and Sulfur (SPOCAS) Acid Base Accounting	
$s\text{-}ANC_E$	S_{POS} - ((S_{POS} + $s\text{-}ANC_E$) / 1.5) WHERE pH_{KCl} >= 6.5 AND TPA = 0
s-Ca+s-Mg	S_{POS} - (($s\text{-}Ca_A$+ $s\text{-}Mg_A$)/ 1.5) WHERE pH_{KCl} >= 6.5 AND TPA = 0

Laboratory results				
	SPOCAS ALHS	**ALHS**	**Unit**	**Description**
Potential Acidity				
S_{CR} (Sulfur, chromium reducible)		22B	%S	(from Chromium Reducible Sulfur method)
S_{POS} (Peroxide oxidisable sulfur)	23Ee		%S	= S_P – S_{KCl}
TSA (Titratable sulfidic acidity)	23H		mol H^+/t	= TPA – TAA
TPA (Titratable peroxide acidity)	23G		mol H^+/t	= Titratable Peroxide Acidity (measured after peroxide digestion)
Retained Acidity				
$a\text{-}S_{RAS}$ (Residual acid-soluble)	a-23Re		mol H^+/t	(S_{RAS} x 0.75 x 623.7) (S_{RAS} expressed in equivalent acidity units)
$a\text{-}S_{NAS}$ (Net acid-soluble sulfur)		a-20J	mol H^+/t	((S_{HCl} – S_{KCl}) x 467.8) (calculated in equivalent acidity units)
Actual Acidity				
TAA (Titratable actual acidity)	23F		mol H^+/t	= Titratable actual acidity (measured before peroxide digestion)
SPOCAS				
pH_{KCl}				pH of soil in potassium chloride (KCl) extract
pH_{OX}				pH of soil after peroxide digestion
S_{KCl}	23Ce		%S	KCl extracted sulfur
$s\text{-}Ca_A$+$s\text{-}Mg_A$	s-23Xh+s-23Um		%S	Addition of Reacted Calcium and Magnesium (in equivalent % pyrite S it will neutralise)
Neutralising Capacity				
$s\text{-}ANC_{BT}$		s-19A2	%S	(ANC_{BT} / 3.121) (ANC_{BT} in equivalent % pyrite S it will neutralise)
$s\text{-}ANC_E$	s-23Q		%S	(ANC_E / 3.121) (ANC_E in equivalent % pyrite S it will neutralise)

Samples were analysed by Method 23 (SPOCAS). The SPOCAS method provides data on pyritic sulfur, pH, existing acidity, as well as a measure of Ca and Mg neutralising reactions. The SPOCAS is an improved and updated version of the POCASm method.

The SPOCAS Method is as per Acid Sulfate Soils Laboratory Methods Guidelines Version 2.1 June 2004 Ahern CA, McElnea AE, Sullivan LA (2004)

Sample selection and handling is as per the Guidelines for Sampling and Analysis of Lowland Acid Sulfate Soils (ASS) in Queensland 1998, CR Ahern, MR Ahern and B Powell (1998).

ALHS Codes are standard analytical method codes according to the Australian Laboratory Handbook of Soil and Water Chemical Methods, GE Rayment and FR Higginson (1992), and Acid Sulfate Soils Laboratory Methods Guidelines Version 2.1 June 2004 Ahern CA, McElnea AE, Sullivan LA (2004)

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH									Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
(m)								(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
1	1	0.00	0.10	FSCL				0.10	4.8	2.0																			
	2	0.10	0.25	KSL																									
	3	0.25	0.40	KSCL				0.30	5.3	4.0																			
	4	0.40	0.50	SCL				0.45	5.3	3.8																			
	5	0.50	0.65	KSL				0.60	5.4	4.1																			
	6	0.65	0.90	LS				0.80	5.3	4.2																			
	7	0.90	1.30	KS				1.00	5.3	4.3																			
								1.25	5.2	4.4																			
	8	1.30	2.00	KS				1.50	5.1	4.6																			
								2.00	5.1	4.2																			
2	1	0.00	0.35	KSL				0.10	4.6	3.1																			
								0.30	4.9	3.0																			
	2	0.35	0.75	KSCL				0.60	4.6	3.5																			
	3	0.75	1.00	KSLC				0.80	4.7	3.6																			
								1.00	4.6	3.6																			
	4	1.00	1.85	KSLC				1.25	4.8	3.6																			
								1.50	4.9	4.1																			
								1.75	5.0	4.0																			
	5	1.85	2.05	HC				2.00	5.2	3.8																			
	6	2.05	2.20	HC																									
3	1	0.00	0.10	CLKS				0.10	4.9	3.7	1	0.00	0.10				< 0.02												
	2	0.10	0.20	CLFS																									
	3	0.20	0.35	SCL				0.30	4.9	3.7	3	0.20	0.30				< 0.02												
	4	0.35	0.60	KSCL				0.60	5.1	1.7	4	0.50	0.60				0.033												
	5	0.60	1.10	KSCL				0.80	5.9	1.6																			
								1.00	6.3	1.7	5	0.80	1.00				0.047	0.037	54	55			1	6.1	4.0	0.02	0.000		
	6	1.10	1.50	KSLC				1.25	6.4	5.8																			
								1.50	6.4	5.5	6	1.30	1.50				< 0.02	0.000	31	31			0	6.5	4.5	0.02	0.000		
	7	1.50	1.90	KSLMC				1.75	6.6	5.5																			
4	1	0.00	0.15	IP				0.10	4.8	3.7	1	0.00	0.10				0.056												
	2	0.15	0.35	SCL				0.30	5.4	4.1																			
	3	0.35	0.55	ZCL																									
	4	0.55	0.88	ZLC				0.60	5.7	3.8																			
								0.80	5.7	3.2	4	0.60	0.80				0.037												
	5	0.88	1.10	ZCL				1.00	5.8	2.1	5	0.90	1.10	S1	Pl		0.064												
	6	1.10	1.50	KSCL				1.25	5.4	1.3																			
								1.50	5.6	1.5	6	1.30	1.50		Pl		0.235												
	7	1.50	1.90	KSLC				1.75	5.7	1.3	7	1.60	1.80		Pc		0.121												
5	1	0.00	0.15	CLS				0.10	5.8	2.9	1	0.00	0.10				< 0.02												
	2	0.15	0.45	FSLC				0.30	6.0	2.7	2	0.20	0.30				< 0.02												
	3	0.45	0.60	KSLC				0.60	5.5	3.9																			
	4	0.60	0.80	KS				0.80	5.6	3.9																			
	5	0.80	1.00	LMC				1.00	5.8	2.7	5	0.80	1.00				0.035												
	6	1.00	1.20	KS							6	1.00	1.20				< 0.02												
	7	1.20	1.50	LMC				1.25	5.8	3.3																			
								1.50	5.9	3.5	7	1.30	1.50				< 0.02												
	8	1.50	1.90	LMC				1.75	6.3	3.5																			
	9	1.90	2.20	ZLMC				2.00	6.2	3.7	9	1.90	2.10				< 0.02												
	10	2.20	2.40	KSLMC				2.25	6.1	4.2	10	2.20	2.40				< 0.02												
6	1	0.00	0.15	CL				0.10	4.9	2.9	1	0.00	0.10				< 0.02												
	2	0.15	0.40	CLFS				0.30	5.1	3.5	2	0.20	0.30				< 0.02												
	3	0.40	0.70	CLFS				0.60	5.9	3.5	3	0.50	0.60				< 0.02												
	4	0.70	1.05	LMC				0.80	6.3	1.4																			
								1.00	7.6	2.2	4	0.80	1.00	S1	Pc		0.536												
	5	1.05	1.80	LMC				1.25	7.6	7.3																			
								1.50	7.9	7.3	5	1.30	1.50		Pc		0.218												
								1.75	9.1	8.8																			
	6	1.80	2.90	SLC				2.00	9.0	8.8	6	1.80	2.00				< 0.02												
								2.25	8.3	8.0																			
								2.50	7.9	7.9	7	2.30	2.50				< 0.02												
								2.75	7.6	7.0																			
	7	2.90	3.00	SLC				3.00	7.4	7.5	8	2.90	3.00				< 0.02												
7	1	0.00	0.10	LC				0.10	5.8	4.1	1	0.00	0.10				< 0.02												
	2	0.10	0.20	LMC																									
	3	0.20	0.90	LMC				0.30	6.1	4.7																			
											3	0.30	0.40				< 0.02												
								0.60	6.0	4.6																			
								0.80	5.9	4.6	4	0.60	0.80				< 0.02												
	4	0.90	1.20	ZLC				1.00	6.1	4.7																			
											5	1.00	1.20	S1	Pc		1.256												
	5	1.20	1.50	ZLC				1.25	6.3	1.1																			
								1.50	6.3	1.0	6	1.30	1.50		Pc		2.702												
	6	1.50	2.00	ZLMC				1.75	6.5	2.0																			
								2.00	6.6	3.6	7	1.80	2.00		Pc		0.184												
8	1	0.00	0.10	LC				0.10	4.6	1.7																			
	2	0.10	0.45	CL				0.30	4.4	2.4																			
	3	0.45	0.75	FSCL				0.60	4.4	2.7																			
	4	0.75	1.10	FSLC				0.80	4.6	3.6																			
								1.00	4.8	3.7																			
	5	1.10	1.80	MHC				1.25	5.2	3.7																			
								1.50	5.5	3.9																			
								1.75	5.6	4.1																			
	6	1.80	1.90	MHC				1.90	5.6	4.0																			
9	1	0.00	0.05	LC	J						1	0.00	0.05				0.038												
	2	0.05	0.25	ZLC				0.10	8.4	7.6																			
											2	0.10	0.20	S0	Pc		0.897												
	3	0.25	0.45	ZCL				0.30	7.8	1.7																			
											3	0.30	0.40		Pl		1.473												
	4	0.45	1.50	ZCL				0.60	7.9	1.0																			
								0.80	7.6	1.0																			
								1.00	7.6	1.0	4	0.80	1.00		Pl		3.308												
								1.25	7.7	1.0																			
								1.50	7.3	0.9	5	1.30	1.50		Pl		2.356												
	5	1.50	2.25	ZCL				1.75	7.4	0.8																			
								2.00	7.4	0.9	6	1.80	2.00		Pl		2.08												
								2.25	7.3	1.0																			
	6	2.25	3.00	ZLC			SS	2.50	7.3	1.4	7	2.30	2.50		Pc		1.301												
								2.75	7.4	1.6																			
								3.00	7.5	2.2	8	2.80	3.00		Pc		1.413												
10	1	0.00	0.10	LC				0.10	8.9	8.8																			
	2	0.10	0.50	LMC				0.30	8.5	7.1																			
	3	0.50	0.90	ZLMC				0.60	7.8	8.1																			
								0.80	7.1	7.1	3	0.60	0.80				< 0.02	0.009	0	8			10	8.3	5.8	0.05	0.080		0.14
	4	0.90	1.25	ZLC				1.00	6.1	1.2																			
											4	1.00	1.20	S1	Pc		1.701	1.383	756	937			181	3.3	2.0	0.64	0.084		
								1.25	7.3	6.0																			
	5	1.25	5.10	ZLC		Y	SS	1.50	7.4	5.3	5	1.30	1.50		Pc	0.067	0.423	1.787	1.987	0	0			10	7.8	5.1	0.50	2.347		0.89
								1.75	7.9	6.6																			
								2.00	7.7	6.5	6	1.80	2.00		Pc	-0.409	-0.156		1.230	0	0			10	8.6	7.6	0.33	2.079		1.23
								2.25	7.7	4.4																			
								2.50	7.9	6.6																			
								2.75	7.8	6.7																			
								3.00	7.7	5.6	8	2.80	3.00		Pc	-1.299	-1.021		1.293	0	0			10	8.6	7.9	0.28	3.470		2.59
								3.25	7.9	6.7																			
								3.50	7.8	6.3																			
								3.75	7.9	6.4																			
								4.00	7.9	6.0	10	3.80	4.00		Pc	-0.535	-0.223		1.036	0	0			10	8.7	7.9	0.26	1.888		1.32
								4.25	7.8	6.1																			
								4.50	7.9	6.2																			
								4.75	7.8	5.5																			
								5.00	7.6	1.7	12	4.80	5.00		Pc			1.344	1.588	536	557			21	4.7	2.6	0.38	0.443		0.00

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)			%S	%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
11	1	0.00	0.20	LC				0.10	6.0	2.9	1	0.00	0.10					< 0.02													
	2	0.20	0.60	LMC				0.30	6.8	7.7																					
											2	0.30	0.50					< 0.02													
								0.60	7.2	7.5																					
	3	0.60	0.80	MC				0.80	7.4	7.3																					
	4	0.80	1.00	SLMC				1.00	7.5	7.2																					
	5	1.00	1.50	CLS			SS	1.25	7.6	7.9																					
								1.50	8.0	7.2	5	1.30	1.50					< 0.02	0.026	2	2			0	8.8	6.4	0.15	0.299	0.42		
	6	1.50	2.25	ZLC				1.75	7.8	7.4																					
								2.00	8.2	7.1	6	1.80	2.00	S2	Pc		-0.580	0.594	0.638	0	0			0	8.9	7.1	0.14	1.827	1.17		
								2.25	8.0	6.7																					
	7	2.25	2.50	FSLC				2.50	7.9	5.6	7	2.30	2.50		Pc	0.129	0.362		1.106	0	0			10	8.7	7.3	0.13	1.116		0.36	
	8	2.50	3.00	CL				2.75	7.4	1.4																					
								3.00	7.3	1.5	8	2.80	3.00		Pl			2.72													
12	1	0.00	0.10	LC				0.10	7.6	6.7	1	0.00	0.10					< 0.02													
	2	0.10	0.35	LMC				0.30	7.1	5.8	2	0.20	0.30					< 0.02													
	3	0.35	0.65	LMC				0.60	6.2	4.8	3	0.50	0.60					< 0.02													
	4	0.65	1.80	ZLC				0.80	6.0	2.5																					
								1.00	6.5	1.3	4	0.80	1.00	S1	Pc			1.182													
								1.25	6.9	1.6																					
								1.50	6.9	1.4	5	1.30	1.50		Pc				2.349	1336	1472			136	3.3	1.7	0.58	0.046			
								1.75	6.9	1.5																					
	5	1.80	3.80	ZLC			SS	2.00	7.0	1.5	6	1.80	2.00		Pc				2.115	1138	1214			76	3.6	1.8	0.37	0.071			
								2.25	7.1	1.5																					
								2.50	7.1	1.5																					
								2.75	7.1	1.5																					
								3.00	7.2	2.4	8	2.80	3.00		Pc				2.135	1203	1259			56	4.0	1.7	0.34	0.057			
								3.25	7.2	1.7																					
								3.50	7.2	1.7																					
								3.75	7.2	2.7																					
13	1	0.00	0.50	CLS				0.10	6.6	2.3																					
								0.30	6.7	4.5																					
	2	0.50	1.10	ZLC				0.60	6.9	2.7																					
								0.80	7.2	5.9																					
								1.00	7.6	3.9	2	0.80	1.00	S0	Pc	-1.872	-1.780		0.601	0	0			10	8.8	8.3	0.13	3.571		3.11	
	3	1.10	1.85	MC				1.25	7.6	8.0																					
								1.50	7.6	8.2	3	1.40	1.60				0.069		0.091	0	0			10	7.0	6.0	0.07	0.033			
								1.75	8.3	8.0																					
	4	1.85	2.15	KSCL				2.00	7.6	7.2	4	1.90	2.10			-0.073	0.003		0.022	0	0			10	7.0	7.6	0.05	0.029		0.12	
	5	2.15	2.60	ZLC		Y	SS	2.25	7.4	6.6																					
								2.50	7.5	6.9	5	2.40	2.60			-0.084	-0.003		0.054	0	0			0	8.7	6.7	0.05	0.086		0.15	
14	1	0.00	0.15	LC				0.10	4.6	2.9	1	0.00	0.10					< 0.02													
	2	0.15	0.40	ZLMC				0.30	4.7	3.3	2	0.20	0.30					< 0.02													
	3	0.40	0.60	MC	J			0.60	4.7	3.0	3	0.50	0.60						0.067	35	48			13	5.1	3.7	0.09	0.001			
	4	0.60	0.80	MC	J			0.80	4.3	2.4	4	0.60	0.80						0.049	28	37			9	5.1	3.9	0.09	0.000			
	5	0.80	1.25	ZLMC				1.00	3.9	2.0	5	0.90	1.10	S1	Pc				0.135	128	165			37	4.5	3.1	0.12	0.001			
								1.25	3.9	0.9																					
	6	1.25	1.50	ZLC				1.50	5.4	1.1	6	1.30	1.50		Pc				1.204	815	910			95	3.9	1.9	0.29	0.025			
	7	1.50	2.40	ZLMC				1.75	5.6	1.1																					
								2.00	5.9	1.1	7	1.80	2.00		Pc			1.043													
								2.25	6.2	1.3																					
	8	2.40	3.00	CLS				2.50	6.0	1.3																					
								2.75	6.0	1.0	8	2.60	2.80		Pl			1.966													
								3.00	6.0	1.1																					
	9	3.00	3.20	KSCL																											
	10	3.20	3.30	KSC				3.25	6.1	1.1																					
15	1	0.00	0.20	CL				0.10	4.4	2.8																					
	2	0.20	0.40	SCL				0.30	4.2	3.7																					
	3	0.40	0.75	SL				0.60	4.0	3.9																					
	4	0.75	1.10	CS				0.80	4.6	4.4																					
								1.00	5.1	4.4																					
	5	1.10	1.30	S				1.25	5.4	4.7																					
	6	1.30	1.75	S				1.50	6.1	4.8																					
								1.75	5.5	4.4																					
	7	1.75	2.15	CS				2.00	5.4	4.0																					
	8	2.15	2.50	FSCL				2.25	4.8	4.1																					
								2.50	4.9	3.7																					
	9	2.50	3.00	FSCL				2.75	5.6	2.6																					
								3.00	6.8	3.6	9	2.80	3.00					< 0.02													
	10	3.00	3.50	FSCL				3.25	6.9	1.5																					
								3.50	7.2	1.3	10	3.30	3.50	S3	Pl			1.52													
	11	3.50	5.00	FSCL				3.75	7.5	1.3																					
								4.00	7.3	1.1	11	3.80	4.00		Pl			1.492													
								4.25	7.7	1.2																					
								4.50	7.5	1.1																					
								4.75	7.6	1.1																					
								5.00	7.5	1.1																					
	12	5.00	6.00	FSLC				5.50	7.5	1.1																					
								6.00	7.7	1.0																					
16	1	0.00	0.25	S				0.10	5.4	4.5																					
	2	0.25	0.70	S				0.30	5.6	4.2																					
								0.60	5.5	5.4																					
	3	0.70	1.10	KS				0.80	6.0	5.5																					
								1.00	6.3	5.6																					
	4	1.10	1.60	KS				1.25	6.1	5.5																					
								1.50	6.2	5.6																					
	5	1.60	2.00	KS				1.75	5.5	5.6																					
								2.00	5.8	5.8																					
	6	2.00	2.50	KS				2.25	6.2	5.2																					
								2.50	6.3	3.4	6	2.30	2.50					< 0.02													
	7	2.50	3.45	KS				2.75	6.3	1.8																					
								3.00	6.1	2.3	7	2.80	3.00					0.02													
								3.25	6.2	2.1																					
	8	3.45	3.75	FS				3.50	6.2	2.0																					
											8	3.50	3.60	S4	Ps			0.12													
								3.75	6.4	1.5																					
	9	3.75	4.80	KS				4.00	6.2	1.8	9	3.80	4.00		Ps			1.029													
								4.25	6.4	1.7																					
								4.50	6.3	1.9																					
								4.75	6.5	1.6																					
	10	4.80	5.00	LMC				5.00	6.2	1.2																					
17	1	0.00	0.30	FS				0.10	4.3	4.0																					
								0.30	4.9	4.6																					
	2	0.30	0.60	FS				0.60	5.3	5.3																					
	3	0.60	1.60	FS				0.80	5.2	5.4																					
								1.00	5.2	5.4																					
								1.25	5.3	5.4																					
								1.50	5.2	5.3																					
	4	1.60	1.85	S				1.75	5.2	5.1																					
	5	1.85	2.15	S				2.00	5.5	5.3																					
	6	2.15	2.50	CLS				2.25	5.5	3.7																					
								2.50	5.8	3.7	7	2.30	2.50					< 0.02													
	7	2.50	2.80	CLS				2.75	5.0	1.8	8	2.60	2.80					< 0.02													
	8	2.80	3.60	CLS				3.00	4.4	1.4	9	2.80	3.00	S3	Pl			0.32													
								3.25	5.8	1.4																					
								3.50	6.1	1.3																					
	9	3.60	4.90	CS				3.75	6.2	1.8																					
								4.00	6.0	1.9	11	3.80	4.00		Ps			0.289													
								4.25	5.9	2.1																					
								4.50	5.9	1.7																					
								4.75	5.8	1.9																					
	10	4.90	5.30	KS				5.00	5.7	2.1																					
											13	5.00	5.20		Ps			0.094													

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results														
																		Potential Acidity				Existing Acidity			SPOCAS						Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
(m)								(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
18	1	0.00	0.45	SL				0.10	4.6	2.8																						
								0.30	4.7	3.2																						
	2	0.45	1.50	S				0.60	5.2	3.8																						
								1.00	5.0	4.3																						
								1.50	5.5	4.5																						
	3	1.50	1.80	CS																												
	4	1.80	2.10	SCL				2.00	5.6	5.1																						
	5	2.10	2.90	SL				2.50	6.0	5.2																						
	6	2.90	4.00	KS				3.00	6.3	5.6																						
								3.50	6.2	5.8																						
								4.00	6.2	5.5																						
	7	4.00	4.50	KS				4.50	6.2	6.3																						
19	1	0.00	0.20	SCL				0.10	4.7	2.2																						
	2	0.20	0.50	S				0.30	4.8	3.2																						
	3	0.50	0.80	S				0.60	5.0	3.7																						
								0.80	5.1	3.2																						
	4	0.80	1.20	LC				1.00	5.1	4.1																						
	5	1.20	1.60	LC				1.25	4.6	4.6																						
								1.50	4.5	3.3																						
	6	1.60	2.10	LC				1.75	4.3	3.6																						
								2.00	4.0	3.7																						
	7	2.10	2.50	CLFS				2.25	4.4	3.1																						
								2.50	4.5	3.4																						
	8	2.50	3.40	CLFS				2.75	4.4	3.3																						
								3.00	4.2	3.0																						
								3.25	4.4	2.9																						
	9	3.40	3.80	LMC				3.50	4.4	2.2																						
								3.75	4.7	2.5																						
	10	3.80	4.00	FSLC	J			4.00	4.5	2.7	2	3.80	4.00						0.020	0	3			30	4.2	5.2	0.02	0.000		
	11	4.00	4.65	MC				4.25	4.5	3.0																						
								4.50	4.5	3.1																						
	12	4.65	5.00	MC				4.75	4.5	3.0																						
								5.00	4.5	3.3																						
20	1	0.00	0.30	LC				0.10	4.4	2.0																						
								0.30	4.3	2.6																						
	2	0.30	0.55	ZCL																												
	3	0.55	1.10	LC				0.60	5.1	2.6																						
								0.80	5.5	3.0																						
								1.00	5.4	3.2																						
	4	1.10	1.60	LMC				1.25	5.7	3.5																						
								1.50	4.6	2.6	4	1.30	1.50					< 0.02														
	5	1.60	2.00	ZLMC				1.75	5.3	1.7																						
								2.00	6.3	1.5	5	1.80	2.00	S2	Pc			0.894														
	6	2.00	2.70	CL				2.25	6.2	1.2																						
								2.50	6.2	1.2																						
											7	2.50	2.70		Pl			2.234														
	7	2.70	3.40	ZLC				2.75	6.3	1.7																						
								3.00	6.2	1.5	8	2.90	3.10		Pc			1.714	1.243	703	827			124	3.6	2.0	0.22	0.003		
								3.25	6.4	2.0																						
	8	3.40	3.80	ZMC				3.50	6.4	2.8																						
											9	3.50	3.70		Pc			0.394														
								3.75	6.6	4.4																						
21	1	0.00	0.20	SCL				0.10	5.2	2.7																						
	2	0.20	0.45	SCL				0.30	5.5	3.1																						
	3	0.45	0.75	ZCL				0.60	5.5	3.6																						
	4	0.75	1.10	SCL				0.80	4.9	3.5																						
								1.00	4.4	3.2																						
	5	1.10	1.50	CLS				1.25	4.5	3.0																						
								1.50	4.4	3.4																						
	6	1.50	2.10	FSLC				1.75	4.3	3.4																						
								2.00	4.2	2.8	6	1.80	2.00						0.011	0	14			35	4.1	4.8	0.01	0.000		
	7	2.10	2.80	SCL				2.25	4.6	2.8																						
								2.50	5.9	1.9	7	2.30	2.50	S3	Pl			0.883														
								2.75	6.5	1.6																						
	8	2.80	4.40	ZLC				3.00	7.0	1.6	8	2.80	3.00		Pc			1.957														
								3.25	7.8	1.6																						
								3.50	7.8	1.4	9	3.30	3.50		Pc			1.726														
								3.75	8.0	1.5																						
								4.00	8.2	1.9																						
								4.25	7.9	1.7																						
	9	4.40	4.80	KS				4.50	7.2	1.6																						
22	1	0.00	0.50	LC				0.10	4.4	2.3	1	0.00	0.10					< 0.02														
								0.30	4.8	2.9																						
	2	0.50	0.75	LMC				0.60	4.9	2.9																						
	3	0.75	1.25	MC				0.80	4.7	3.1																						
								1.00	5.6	3.6																						
								1.25	5.9	3.9																						
	4	1.25	1.75	MC				1.50	6.3	4.5	5	1.30	1.50					< 0.02														
								1.75	6.6	3.6																						
	5	1.75	2.30	SCL				2.00	6.4	1.1	6	1.80	2.00	S2	Pl			0.535														
								2.25	6.5	1.4																						
	6	2.30	4.25	KS				2.50	6.5	1.5																						
								2.75	6.7	1.4																						
								3.00	6.5	1.5	8	2.80	3.00		Ps			0.268														
								3.25	6.7	1.7																						
								3.50	6.6	1.3																						
								3.75	6.8	1.6																						
								4.00	6.6	1.7																						
								4.25	6.6	1.8																						
	7	4.25	4.50	ZLC				4.50	6.6	1.5	11	4.30	4.50		Pc			0.85														
	8	4.50	5.00	KS				4.75	6.7	1.8																						
								5.00	6.6	1.8																						
	9	5.00	5.20	ZLC							13	5.00	5.20		Pc			0.989														
	10	5.20	5.30	KS				5.25	6.8	1.7																						
23	1	0.00	0.40	CL				0.10	4.5	2.1																						
								0.30	5.0	3.3																						
	2	0.40	0.70	CL				0.60	5.6	3.7																						
	3	0.70	1.30	LC				0.80	5.5	3.6																						
								1.00	5.4	3.7																						
								1.25	5.4	4.1																						
	4	1.30	2.00	ZLC				1.50	5.4	5.5																						
								1.75	5.6	4.0																						
								2.00	5.6	4.0																						
	5	2.00	2.30	SL				2.25	5.6	4.4																						
	6	2.30	2.70	SCL				2.50	5.7	4.3																						
	7	2.70	3.60	SCL				2.75	5.7	4.1																						
								3.00	5.3	3.9																						
								3.25	4.6	3.3																						
								3.50	4.9	2.9	8	3.30	3.50					< 0.02														
	8	3.60	3.80	ZL				3.75	5.5	1.8	9	3.60	3.80					0.026														
	9	3.80	4.15	FSCL				4.00	6.2	1.8	10	3.80	4.00	S4	Pl			0.782														
	10	4.15	4.50	ZLC				4.25	6.7	1.4																						
								4.50	7.1	1.2	11	4.30	4.50		Pc			2.532														
24	1	0.00	0.40	LC				0.10	4.3	2.2																						
								0.30	4.5	2.3																						
	2	0.40	0.70	LMC				0.60	4.5	2.7																						
	3	0.70	1.00	MC				0.80	4.4	2.5																						
								1.00	5.5	1.4	4	0.80	1.00					0.047														
	4	1.00	1.30	ZLC				1.25	6.2	1.5	5	1.10	1.30	S1	Pc			2.299														
	5	1.30	3.05	KS				1.50	6.1	1.2																						
								1.75	6.5	1.6																						
								2.00	6.9	1.7	6	1.80	2.00		Ps			0.214														
								2.25	7.0	1.6																						
								2.50	6.9	1.6	7	2.30	2.50		Ps			0.173														
								2.75	7.1	1.5																						
								3.00	7.3	1.5																						
	6	3.05	3.65	ZLC				3.25	7.1	1.4																						
								3.50	7.0	1.3																						
	7	3.65	4.10	ZLC				3.75	7.2	1.3																						
								4.00	7.3	1.3	10	3.80	4.00		Pc			1.841														

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
									Field pH									Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
25	1	0.00	0.20	CLKS				0.10	4.8	2.7																					
	2	0.20	0.50	SMC				0.30	5.2	2.7																					
	3	0.50	0.60	SMC				0.60	6.9	5.1																					
	4	0.60	0.85	CLKS				0.80	7.5	2.8	4	0.70	0.80					0.054													
	5	0.85	1.50	CS				1.00	7.2	3.8	5	0.90	1.10	S1	Ps			0.181													
								1.25	7.0	1.6																					
								1.50	6.9	1.7	6	1.30	1.50		Ps			0.587													
	6	1.50	2.40	CS				1.75	6.9	1.9																					
								2.00	6.8	2.0																					
								2.25	7.0	2.1	8	2.20	2.40		Ps			0.103													
26	1	0.00	0.40	CLS				0.10	4.2	1.9																					
								0.30	4.8	2.0																					
	2	0.40	0.85	MC				0.60	5.1	3.3																					
								0.80	5.5	3.6																					
	3	0.85	1.20	SLC				1.00	6.1	4.3																					
	4	1.20	1.70	KS				1.25	6.0	3.6																					
								1.50	6.3	2.1	4	1.30	1.50					0.017													
	5	1.70	2.85	KS				1.75	6.6	1.8																					
								2.00	6.8	1.8	5	1.80	2.00	S2	Ps			0.151													
								2.25	7.0	1.8																					
								2.50	7.0	1.7	6	2.30	2.50		Ps			0.492													
								2.75	7.3	2.0																					
	6	2.85	3.00	ZLC				3.00	7.1	1.7	7	2.90	3.00		Pc			0.894													
	7	3.00	3.30	KS				3.25	7.4	2.0																					
	8	3.30	3.75	CFS				3.50	7.7	2.0																					
								3.75	8.0	2.0																					
	9	3.75	4.70	S				4.00	7.5	2.1																					
								4.25	7.9	2.2																					
								4.50	8.1	2.3	11	4.30	4.50		Ps			0.032													
27	1	0.00	0.35	SCL				0.10	3.6	2.4	1	0.00	0.10					< 0.02	0.009	0	8			10	5.2	5.9	0.01	0.002		0.00
								0.30	3.3	2.0																					
	2	0.35	0.60	KS				0.60	3.8	3.6	2	0.50	0.60					< 0.02	0.000	0	9			74	4.2	5.4	0.01	0.000		0.00
	3	0.60	1.80	KS				0.80	4.1	3.1																					
								1.00	5.0	4.4																					
								1.25	4.5	4.1																					
								1.50	5.1	4.3	3	1.30	1.50					< 0.02													
								1.75	5.5	4.5																					
	4	1.80	2.50	KS				2.00	5.6	4.6																					
											4	2.00	2.20					< 0.02													
								2.25	6.1	3.6																					
								2.50	6.3	2.7																					
	5	2.50	3.40	KS				2.75	6.2	2.4																					
								3.00	5.8	2.2	5	2.80	3.00	S3	Ps			0.038													
								3.25	5.8	2.2																					
28	1	0.00	0.20	LC				0.10	4.6	2.2																					
	2	0.20	0.40	CLFS				0.30	4.3	2.3																					
	3	0.40	0.75	LC				0.60	4.6	3.4																					
	4	0.75	1.10	FSLC				0.80	4.7	3.5																					
								1.00	4.7	3.3																					
	5	1.10	1.30	KS				1.25	4.8	3.1	5	1.10	1.30					< 0.02													
	6	1.30	2.00	KS				1.50	5.3	3.6																					
								1.75	5.3	2.4																					
								2.00	5.5	2.3	6	1.80	2.00					0.022													
	7	2.00	2.70	KS				2.25	5.9	2.2																					
								2.50	6.2	2.2	7	2.30	2.50	S2	Ps			0.068													
	8	2.70	3.30	KS				2.75	6.1	2.1																					
								3.00	5.9	1.5	8	2.90	3.10		Ps			0.532													
								3.25	5.7	1.9																					
	9	3.30	5.00	KS				3.50	5.4	2.2																					
								3.75	5.4	2.4																					
								4.00	5.3	2.1	10	3.80	4.00		Ps			0.057													
								4.25	5.3	2.1																					
								4.50	5.3	2.1																					
								4.75	5.5	2.1																					
								5.00	5.9	1.9	12	4.80	5.00		Ps			0.045													
29	1	0.00	0.15	CLFS				0.10	5.0	2.4																					
	2	0.15	0.35	CLFS				0.30	4.9	2.2																					
	3	0.35	0.50	CLFS																											
	4	0.50	1.00	SCL				0.60	4.7	2.9																					
								0.80	4.4	3.0																					
								1.00	4.6	3.1																					
	5	1.00	1.35	SLC				1.25	4.5	3.1	5	1.10	1.30					< 0.02													
	6	1.35	2.00	KS				1.50	5.0	2.9																					
								1.75	5.2	2.3																					
								2.00	5.0	2.1	6	1.80	2.00	S2	Ps			0.036													
	7	2.00	3.90	KS				2.25	5.0	1.8																					
								2.50	5.2	2.0	7	2.30	2.50		Ps			0.111													
								2.75	5.4	2.2																					
								3.00	5.5	2.2																					
								3.25	5.9	2.3																					
								3.50	6.1	2.3	9	3.30	3.50		Ps			0.052													
								3.75	6.4	2.0																					
	8	3.90	4.50	KS				4.00	6.8	1.9																					
								4.25	6.9	1.8	10	4.10	4.30		Ps			0.893													
								4.50	7.1	1.8																					
	9	4.50	5.30	ZLC				4.75	7.8	1.9																					
								5.00	8.2	2.1																					
30	1	0.00	0.25	LC				0.10	4.6	2.4																					
	2	0.25	1.05	CLFS				0.30	4.7	3.2																					
								0.60	4.7	3.2																					
								0.80	4.8	3.2																					
								1.00	4.8	3.1																					
	3	1.05	1.30	CLFS				1.25	4.4	3.1																					
	4	1.30	1.85	CLS				1.50	4.4	2.8																					
								1.75	4.5	2.7																					
	5	1.85	2.10	KSLC				2.00	4.5	2.7																					
	6	2.10	2.70	KS				2.25	4.6	2.8																					
								2.50	4.5	3.0																					
	7	2.70	4.40	KS				2.75	4.6	3.5																					
								3.00	4.7	3.3																					
								3.25	4.6	2.5																					
								3.50	4.7	2.5																					
								3.75	4.7	2.2																					
								4.00	4.6	2.2	10	3.80	4.00					< 0.02													
								4.25	4.3	2.0																					
	8	4.40	4.90	KS				4.50	4.5	1.9																					
								4.75	4.7	1.9	11	4.70	4.90	S5	Ps			0.043													
								4.90	4.9	2.0																					
31	1	0.00	0.40	LC				0.10	4.8	2.1																					
								0.30	4.9	2.1																					
	2	0.40	0.70	LC				0.60	4.8	3.5																					
	3	0.70	1.00	CLFS				0.80	4.7	3.7																					
								1.00	4.7	3.6																					
	4	1.00	1.40	SCL																											
	5	1.40	2.00	SCL				1.50	4.8	2.7																					
								1.75	4.4	3.2																					
								2.00	4.4	3.0																					
	6	2.00	2.30	FSCL				2.25	4.5	2.9																					
	7	2.30	2.70	SL				2.50	4.4	2.9	8	2.40	2.60						0.008	0	12	2		13	4.3	4.8	0.02	0.006		
	8	2.70	3.15	SCL				2.75	4.1	2.7																					
								3.00	4.2	2.5	9	2.80	3.00						0.019	29	40	2		11	4.5	3.7	0.02	0.009		
	9	3.15	4.45	S				3.25	4.0	1.3																					
								3.50	4.0	1.1	10	3.30	3.50	S4	Ps				0.873	506	576	24		70	3.7	2.0	0.12	0.013		
								3.75	4.7	1.1																					
								4.00	5.5	1.1																					
								4.25	5.7	1.2																					
	10	4.45	5.30	ZLC				4.50	5.9	1.2																					
								4.75	6.2	1.2	12	4.60	4.80		Pc			1.051													
								5.00	6.5	1.4																					

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
								Field pH								Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 / TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E / s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
32	1	0.00	0.15	LC				0.10	4.0	2.4																			
	2	0.15	0.65	LC				0.30	4.6	2.8																			
								0.60	4.5	3.3																			
	3	0.65	1.30	LMC				0.80	4.3	3.0																			
								1.00	4.0	2.9	3	0.80	1.00					0.014	0	21	2		31	4.1	4.3	0.03	0.021		
								1.25	4.1	2.9																			
	4	1.30	1.80	LMC				1.50	4.8	3.4	4	1.40	1.60					0.016	0	11	2		12	4.4	4.9	0.01	0.022		
								1.75	5.4	2.1																			
	5	1.80	3.20	ZLC				2.00	5.3	1.5																			
											5	2.00	2.20	S2	Pc		1.175												
								2.25	5.7	1.3																			
								2.50	6.2	1.5																			
								2.75	6.4	1.7																			
								3.00	6.7	1.3																			
	6	3.20	3.50	KS				3.25	6.8	1.3																			
								3.50	6.9	1.3	7	3.30	3.50		Ps		0.574												
	7	3.50	3.80	ZLC				3.75	6.9	1.4	8	3.60	3.80		Pc		1.462												
	8	3.80	4.40	KS				4.00	7.7	1.3																			
								4.25	6.8	1.3																			
	9	4.40	4.80	KS				4.50	6.7	1.3																			
33	1	0.00	0.15	LC				0.10	4.1	2.4	1	0.00	0.10				< 0.02	0.027	11	85			74	4.1	4.8	0.02	0.000		0.00
	2	0.15	0.45	LMC				0.30	3.8	2.4	2	0.20	0.30				< 0.02	0.008	44	88			44	4.2	4.3	0.04	0.000		0.00
	3	0.45	1.20	LMC				0.60	3.6	2.6																			
								0.80	3.6	2.7																			
								1.00	3.8	2.8	4	0.80	1.00				< 0.02	0.002	33	66			33	4.3	4.1	0.07	0.000		0.00
	4	1.20	1.45	ZLC	J			1.25	3.9	2.8	5	1.20	1.40					0.018	6	26	14		20	4.0	4.4	0.03	0.015		
	5	1.45	1.75	ZLC	J			1.50	3.9	2.7																			
											6	1.50	1.70				< 0.02	0.024	4	70		140	66	4.2	4.1	0.03	0.000		0.00
								1.75	3.9	2.7																			
	6	1.75	2.70	ZLC				2.00	3.6	1.7	7	1.80	2.00	S2	Pc			0.104	109	176	6		67	3.9	2.6	0.06	0.016		
								2.25	3.6	1.2																			
								2.50	3.6	1.2	8	2.30	2.50				< 0.02												
	7	2.70	4.10	ZLC				2.75	3.7	1.2																			
								3.00	3.9	1.4	9	2.80	3.00		Pc			1.144	713	955	101		242	3.3	1.9	0.32	0.018		
								3.25	4.8	1.5																			
								3.50	5.7	1.8	10	3.30	3.50		Pc		1.465												
								3.75	5.9	1.8																			
								4.00	6.0	1.7																			
34	1	0.00	0.40	SCL				0.10	4.5	2.8																			
								0.30	4.5	3.1																			
	2	0.40	0.65	KS				0.60	5.2	3.9																			
	3	0.65	1.00	SLMC				0.80	5.0	3.4																			
								1.00	4.7	2.4																			
	4	1.00	1.75	ZLMC				1.25	6.8	2.1																			
								1.50	6.8	2.6																			
								1.75	6.9	3.3																			
	5	1.75	2.05	FSLMC				2.00	6.6	3.1	6	1.80	2.00				0.021												
	6	2.05	2.30	ZLC				2.25	6.4	1.6	7	2.10	2.30				0.09												
	7	2.30	2.65	CLS				2.50	6.3	1.4	8	2.40	2.60	S3	Pl		1.15												
	8	2.65	3.20	KS				2.75	6.3	1.4																			
								3.00	6.4	1.4	9	2.80	3.00		Ps		0.429												
	9	3.20	4.10	ZLC				3.25	6.5	1.4																			
								3.50	6.5	1.4	10	3.30	3.50		Pc		1.643												
								3.75	6.8	1.4																			
								4.00	6.8	1.6																			
35	1	0.00	0.35	LC				0.10	4.3	2.5																			
								0.30	4.9	3.5																			
	2	0.35	1.20	LC				0.60	4.9	4.6																			
								0.80	4.9	4.4																			
								1.00	5.0	4.0																			
	3	1.20	1.60	KS				1.25	5.4	4.2																			
								1.50	5.5	3.7																			
	4	1.60	2.50	KS				1.75	5.5	4.2																			
								2.00	5.3	4.1																			
								2.25	5.4	3.1																			
								2.50	5.4	3.0																			
	5	2.50	2.90	KS				2.75	5.3	3.6																			
	6	2.90	3.40	KS				3.00	5.5	2.7																			
											9	3.00	3.20				< 0.02												
								3.25	4.2	2.2																			
	7	3.40	4.80	KS				3.50	4.5	1.4	10	3.40	3.60	S4	Ps		0.192												
								3.75	5.3	1.3																			
								4.00	6.0	1.5	11	3.80	4.00		Ps		0.22												
								4.25	6.3	1.8																			
								4.50	6.5	1.6																			
								4.75	6.7	1.5	12	4.60	4.80		Ps		0.193												
36	1	0.00	0.50	FSCL				0.10	4.2	2.3																			
								0.30	4.2	2.5																			
	2	0.50	0.80	SCL				0.60	4.2	3.3																			
								0.80	4.6	3.8																			
	3	0.80	1.70	LS				1.00	4.5	3.8																			
								1.25	4.5	4.1																			
								1.50	4.7	4.4																			
	4	1.70	2.50	KS				1.75	4.5	4.7																			
								2.00	4.6	4.8																			
								2.25	4.9	4.8																			
								2.50	5.0	4.7																			
	5	2.50	2.90	KS				2.75	5.1	4.8																			
37	1	0.00	0.45	CL				0.10	4.3	2.3																			
								0.30	4.9	2.6																			
	2	0.45	1.00	LC				0.60	5.4	2.9																			
								0.80	5.3	2.8																			
								1.00	5.3	2.6																			
	3	1.00	1.80	CLS				1.25	5.6	3.8																			
								1.50	5.5	3.9	5	1.30	1.50				< 0.02												
								1.75	4.5	2.1																			
	4	1.80	2.40	FSCL				2.00	5.4	1.2																			
											6	2.00	2.20	S2	Pl		0.777												
								2.25	6.3	1.4																			
	5	2.40	3.70	KS				2.50	6.3	1.6																			
											7	2.50	2.70		Ps		0.056												
								2.75	6.5	1.9																			
								3.00	7.2	1.9																			
								3.25	7.2	1.8																			
								3.50	7.1	1.5																			
	6	3.70	4.40	FSLC				3.75	6.9	1.4																			
								4.00	7.8	1.3	9	3.80	4.00		Pc		1.933												
								4.25	7.2	1.2																			
38	1	0.00	0.15	LC				0.10	4.3	2.3																			
	2	0.15	0.50	LMC				0.30	4.6	2.7																			
	3	0.50	1.10	FSLMC				0.60	6.1	3.8																			
								0.80	6.5	5.2																			
								1.00	6.8	2.7																			
	4	1.10	1.40	FSLMC				1.25	6.9	4.5	4	1.20	1.40				< 0.02												
	5	1.40	1.70	FSLC				1.50	6.8	1.6																			
											5	1.50	1.70	S2	Pc		0.994												
	6	1.70	2.50	ZLC				1.75	7.0	1.5																			
								2.00	7.1	1.6	6	1.80	2.00		Pc		1.952												
								2.25	7.0	1.4																			
								2.50	6.9	1.5																			
	7	2.50	3.10	SCL				2.75	6.7	1.4																			
								3.00	6.7	1.3	8	2.80	3.00		Pl		0.667												
	8	3.10	3.70	S				3.25	6.6	1.5																			
								3.50	6.5	1.7																			
	9	3.70	4.40	KS				3.75	7.1	1.6																			
								4.00	7.2	1.8	10	3.80	4.00		Ps		0.035												
								4.25	7.2	1.9																			
	10	4.40	4.50	ZLC				4.50	6.4	1.5																			

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
39	1	0.00	0.40	CL				0.10	4.5	2.8																				
								0.30	5.0	3.4																				
	2	0.40	0.70	CL				0.60	4.9	4.1																				
	3	0.70	1.00	SL				0.80	4.8	4.1																				
								1.00	4.9	4.4																				
	4	1.00	1.40	SL				1.25	5.0	4.0																				
	5	1.40	2.00	S				1.50	5.1	4.1																				
								1.75	4.5	3.5																				
								2.00	4.3	2.2																				
	6	2.00	2.50	SCL				2.25	4.0	3.0	6	2.20	2.40					0.008	0	12	2		14	4.2	5.2	0.01	0.023		
								2.50	4.0	3.0																				
	7	2.50	3.40	CLS				2.75	4.0	2.7																				
								3.00	4.1	2.9	7	2.80	3.00					0.000	0	15	2		16	4.1	5.1	0.01	0.021		
								3.25	4.2	2.5																				
	8	3.40	3.80	SLC				3.50	4.9	2.6																				
											8	3.50	3.70				< 0.02													
								3.75	4.9	2.4																				
	9	3.80	4.20	LMC				4.00	5.4	1.3																				
								4.20	6.2	1.4	9	4.00	4.20	S4	Pc		3.707													
40	1	0.00	0.45	CLS				0.10	4.9	2.4																				
								0.30	5.5	2.5																				
	2	0.45	0.75	CLS				0.60	5.4	2.4	2	0.50	0.60				< 0.02													
	3	0.75	1.05	SCL				0.80	5.3	2.5																				
								1.00	4.7	3.0																				
	4	1.05	1.40	SLMC				1.25	4.2	2.6																				
	5	1.40	1.60	KSLC				1.50	4.1	2.1	5	1.40	1.60					0.025	0	5			27	3.9	4.8	0.01	0.002		
	6	1.60	2.90	KS				1.75	4.5	1.7																				
								2.00	4.4	1.5	6	1.80	2.00	S2	Ps		0.223													
								2.25	5.0	1.5																				
								2.50	5.1	1.5	7	2.30	2.50		Ps		0.237													
								2.75	5.1	1.6																				
	7	2.90	4.30	KS				3.00	5.3	1.8																				
											8	3.00	3.20		Ps		0.185													
								3.25	5.3	1.8																				
								3.50	5.6	2.6																				
								3.75	5.7	5.7																				
								4.00	5.6	1.6	9	3.80	4.00		Ps		0.18													
								4.25	5.7	1.5																				
41	1	0.00	0.40	FSLC				0.10	4.9	2.6																				
								0.30	5.4	3.0																				
	2	0.40	0.70	SCL				0.60	5.6	4.1																				
	3	0.70	1.00	LS				0.80	5.7	4.6																				
								1.00	5.9	4.4																				
	4	1.00	1.20	LS																										
	5	1.20	1.40	SL				1.25	6.0	4.3																				
	6	1.40	1.75	KS				1.50	6.2	4.3																				
											7	1.50	1.70	S2	Ps		0.116													
								1.75	5.5	2.2																				
	7	1.75	2.30	KS				2.00	5.6	2.2	8	1.80	2.00		Ps		0.087													
								2.25	5.4	2.1																				
	8	2.30	4.30	KS				2.50	5.5	2.1	9	2.30	2.50		Ps		0.218													
								2.75	5.8	2.0																				
								3.00	5.9	2.0	10	2.80	3.00		Ps		0.285													
								3.25	6.1	1.8																				
								3.50	6.1	2.0																				
								3.75	6.2	2.2																				
								4.00	6.1	2.2																				
								4.25	6.2	2.1	12	4.10	4.30		Ps		0.057													
42	1	0.00	0.15	LC				0.10	4.6	3.0																				
	2	0.15	0.45	LC				0.30	5.0	3.3																				
	3	0.45	0.75	LMC				0.60	5.8	3.7																				
	4	0.75	1.10	MC				0.80	6.3	4.1																				
								1.00	6.2	4.2																				
	5	1.10	1.40	KSLC				1.25	6.6	3.9	5	1.10	1.30				< 0.02													
	6	1.40	1.70	SCL				1.50	6.6	1.7																				
											6	1.50	1.70	S2	Pl		0.644													
	7	1.70	2.80	KS				1.75	7.0	1.4																				
								2.00	7.1	1.3	7	1.80	2.00		Ps		0.364													
								2.25	6.7	1.3																				
								2.50	7.0	1.2	8	2.30	2.50		Ps		0.512													
								2.75	7.1	1.2																				
	8	2.80	3.25	KS				3.00	6.7	1.2																				
								3.25	6.9	1.2																				
	9	3.25	3.50	KS				3.50	7.2	1.3	9	3.30	3.50		Ps		0.37													
	10	3.50	4.00	KS				3.75	7.0	1.5																				
								4.00	7.4	1.2																				
	11	4.00	4.10	ZLC																										
43	1	0.00	0.40	CS				0.10	4.3	3.2																				
								0.30	4.5	3.1																				
	2	0.40	0.90	KS				0.60	4.6	3.7																				
											3	0.60	0.70				< 0.02													
								0.80	4.8	3.8																				
	3	0.90	1.10	S				1.00	4.8	3.7																				
	4	1.10	1.30	S				1.25	4.8	3.7																				
	5	1.30	1.80	KS				1.50	4.9	4.0	6	1.40	1.60				< 0.02													
								1.75	5.0	4.4																				
	6	1.80	2.35	SL				2.00	5.1	4.4																				
											7	2.00	2.20				< 0.02													
								2.25	5.2	4.6																				
	7	2.35	2.70	SL				2.50	5.3	4.8																				
	8	2.70	3.00	SL				2.75	5.4	4.8																				
								3.00	5.5	4.9																				
	9	3.00	3.60	SCL				3.25	5.7	4.7	10	3.20	3.40				< 0.02													
								3.50	5.5	4.6																				
	10	3.60	4.50	KSCL				3.75	5.5	4.8																				
								4.00	5.7	4.5																				
								4.25	5.6	4.7																				
								4.50	5.8	4.7	12	4.30	4.50				< 0.02													
44	1	0.00	0.30	CL				0.10	4.0	2.2	1	0.00	0.10					0.032	0	26			78	4.2	4.3	0.02	0.000		
								0.30	4.3	2.4																				
	2	0.30	0.55	SCL																										
	3	0.55	0.90	CLS				0.60	4.4	3.0																				
								0.80	4.3	3.5	3	0.60	0.80				< 0.02	0.003	32	75			43	4.5	4.0	0.01	0.000		
	4	0.90	1.25	MC				1.00	4.1	2.4																				
											4	1.00	1.20				< 0.02	0.005	28	127			99	4.2	3.9	0.02	0.000		
								1.25	4.1	2.3																				
	5	1.25	1.50	LMC				1.50	4.0	2.2	5	1.30	1.50				< 0.02	0.020	15	153			138	4.1	3.9	0.02	0.000		
	6	1.50	1.85	SLC				1.75	4.6	1.7	6	1.60	1.80				< 0.02	0.069	42	139			97	4.2	3.6	0.01	0.000		
	7	1.85	2.30	SCL				2.00	4.9	1.2																				
											7	2.00	2.20	S2	Pl		2.006													
								2.25	5.5	1.0																				
	8	2.30	3.00	KS				2.50	6.1	1.8	8	2.30	2.50		Ps		1.106													
								2.75	6.9	1.7																				
								3.00	6.5	1.5																				

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
								Field pH								Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5												
		(m)						(m)				(m)				TPA =0												
																%S				%S							%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
45	1	0.00	0.15	SCL				0.10	4.2	2.5																			
	2	0.15	0.40	SCL				0.30	4.3	2.6																			
	3	0.40	0.90	SCL				0.60	4.6	3.7																			
								0.80	5.0	4.0																			
	4	0.90	1.40	LS				1.00	5.3	4.2																			
								1.25	5.2	4.0																			
	5	1.40	2.40	S				1.50	4.8	4.8																			
								1.75	5.2	4.3																			
								2.00	5.4	3.5	5	1.80	2.00			< 0.02													
								2.25	5.2	4.0																			
	6	2.40	2.75	FS				2.50	5.3	3.9																			
								2.75	5.2	4.0																			
	7	2.75	3.60	KS				3.00	5.3	4.3																			
								3.25	5.3	4.4																			
								3.50	5.5	4.5																			
	8	3.60	4.50	KS				3.75	5.5	4.6																			
								4.00	5.5	4.5																			
											8	4.00	4.20			< 0.02													
								4.25	5.6	4.3																			
								4.50	5.7	4.6																			
46	1	0.00	0.35	ZLC				0.10	4.1	2.7																			
								0.30	4.3	2.9																			
	2	0.35	0.50	LMC							3	0.40	0.50				0.017	0	9				35	4.2	4.5	0.01	0.000		
	3	0.50	1.15	KS				0.60	4.9	2.6																			
								0.80	5.4	1.6																			
								1.00	5.5	5.5	4	0.80	1.00	S0	Ps	0.197													
	4	1.15	3.00	KS				1.25	5.7	1.7																			
								1.50	5.7	1.7	5	1.30	1.50		Ps	0.09													
								1.75	5.8	1.8																			
								2.00	5.7	1.7																			
								2.25	5.8	1.6																			
								2.50	6.1	1.6	7	2.30	2.50		Ps	0.084													
								2.75	6.2	1.7																			
								3.00	6.2	1.6																			
	5	3.00	3.40	KS				3.25	6.7	1.7	9	3.10	3.30		Ps	0.118													
	6	3.40	3.80	FSCL				3.50	6.1	2.7																			
											10	3.50	3.70			< 0.02													
								3.75	6.2	4.3																			
47	1	0.00	0.40	SCL				0.10	4.4	3.0																			
								0.30	4.3	2.8																			
	2	0.40	0.75	KS				0.60	4.3	2.9																			
	3	0.75	1.00	SL				0.80	4.2	3.3																			
								1.00	4.6	3.2																			
	4	1.00	1.60	KS				1.25	4.6	5.6																			
								1.50	5.8	2.5																			
	5	1.60	2.00	KS				1.75	6.4	2.3																			
								2.00	6.3	2.4	5	1.80	2.00			< 0.02													
	6	2.00	2.70	KS				2.25	6.4	1.6																			
								2.50	6.2	1.7	6	2.30	2.50	S2	Ps	0.292													
	7	2.70	3.00	KS				2.75	6.4	1.9																			
								3.00	6.5	1.5																			
	8	3.00	3.15	FSL																									
	9	3.15	3.40	KS				3.25	6.6	1.6																			
48	1	0.00	0.15	SCL				0.10	4.4	2.2	1	0.00	0.10			< 0.02							33	4.4					
	2	0.15	0.40	SL				0.30	4.5	2.7																			
	3	0.40	0.50	SCL																									
	4	0.50	0.65	FSLC				0.60	5.4	3.5																			
	5	0.65	0.90	SCL				0.80	5.7	3.9																			
	6	0.90	1.35	SL				1.00	5.8	4.1																			
											4	1.00	1.20			< 0.02													
								1.25	5.8	4.0																			
	7	1.35	2.10	KS				1.50	6.4	2.5																			
								1.75	6.3	1.8	5	1.70	1.90	S2	Ps	0.104													
								2.00	6.4	1.8																			
	8	2.10	2.80	KS				2.25	6.3	1.6																			
								2.50	6.1	1.4	6	2.30	2.50		Ps	0.394													
								2.75	6.3	1.4																			
	9	2.80	3.30	KS				3.00	6.3	1.8																			
											7	3.00	3.20		Ps	0.075													
								3.25	6.6	1.6																			
	10	3.30	4.05	KS				3.50	6.6	1.7																			
								3.75	6.7	1.8	8	3.60	3.80		Ps	0.072													
								4.00	6.6	1.4																			
	11	4.05	4.60	FSLC				4.25	6.7	3.6																			
								4.50	6.8	5.7	9	4.30	4.50			< 0.02													
49	1	0.00	0.20	CL				0.10	4.8	2.2																			
	2	0.20	0.40	LC				0.30	4.8	2.4																			
	3	0.40	0.85	ZLC				0.60	6.7	5.0																			
								0.80	6.6	4.5																			
	4	0.85	1.20	MC				1.00	6.4	4.4	4	0.90	1.10			< 0.02													
	5	1.20	1.80	SCL				1.25	4.7	3.2																			
								1.50	5.8	1.4	5	1.30	1.50	S2	Pl	1.228													
								1.75	6.4	1.3																			
	6	1.80	2.30	KSCL				2.00	6.5	1.4	6	1.90	2.10		Pl	0.351													
								2.25	6.5	1.7																			
	7	2.30	3.40	KSL				2.50	6.5	1.5	7	2.40	2.60		Pl	0.345													
								2.75	6.5	1.5																			
								3.00	6.5	1.4																			
								3.25	6.2	1.7																			
	8	3.40	4.80	KS				3.50	6.3	1.7																			
								3.75	6.4	1.7																			
								4.00	6.6	1.7	9	3.80	4.00		Ps	0.222													
								4.25	6.3	1.6																			
								4.50	6.6	1.6																			
								4.75	6.7	1.6																			
	9	4.80	5.00	KSL				5.00	6.7	1.3	11	4.80	5.00		Pl	0.619													
	10	5.00	5.10	KSLC																									
50	1	0.00	0.40	LMC				0.10	4.4	3.4	1	0.00	0.10			< 0.02							36	4.4		0.01			
								0.30	5.0	2.8																			
	2	0.40	1.10	FSLMC				0.60	5.3	3.0																			
								0.80	5.5	4.0																			
								1.00	6.0	4.6																			
	3	1.10	1.75	FSMC				1.25	6.5	3.9																			
								1.50	5.8	3.7	5	1.30	1.50			< 0.02													
								1.75	5.4	3.5																			
	4	1.75	2.00	FSMC				2.00	5.6	3.5																			
	5	2.00	2.40	KS				2.25	5.4	2.6	7	2.10	2.30			0.021													
	6	2.40	2.60	KS				2.50	5.4	2.2	8	2.40	2.60	S3	Ps	0.082													
	7	2.60	2.90	KSLC				2.75	6.5	1.9	9	2.70	2.90		Pc	0.101													
	8	2.90	3.60	KS				3.00	6.7	1.9																			
											10	3.30	3.50		Ps	0.089													
51	1	0.00	0.15	CL				0.10	4.5	2.3																			
	2	0.15	0.40	LC				0.30	4.8	2.6																			
	3	0.40	0.80	ZLC				0.60	4.4	2.3	3	0.50	0.60				0.013	0	12				60	4.1	4.2	0.03	0.001		
								0.80	4.4	2.4																			
	4	0.80	1.10	FSLMC				1.00	4.2	2.7	4	0.80	1.00			< 0.02	0.004	9	68				59	4.4	4.2	0.04	0.004		
	5	1.10	1.80	LMC				1.25	4.0	2.4																			
								1.50	3.8	2.4	5	1.30	1.50			< 0.02	0.001	15	95				80	4.2	3.9	0.04	0.000		
								1.75	3.8	2.5																			
	6	1.80	2.20	LMC	J			2.00	3.7	2.3	6	1.90	2.10			< 0.02	0.009	20	83				63	3.7	3.9	0.03	0.002		
	7	2.20	2.60	ZLMC	J			2.25	4.1	2.3																			
								2.50	5.6	2.8	7	2.30	2.50			< 0.02	0.022	15	92				77	4.2	3.9	0.02	0.002		
	8	2.60	3.00	ZLMC				2.75	5.7	1.8																			
								3.00	5.6	2.0	8	2.80	3.00	S3	Pc	0.477													
	9	3.00	3.60	ZLMC				3.25	6.5	1.5																			
								3.50	7.1	2.6	9	3.30	3.50			< 0.02													

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
52	1	0.00	0.40	LC				0.10	4.2	2.2	1	0.00	0.10					< 0.02						55	4.3					
								0.30	4.0	2.4																				
	2	0.40	0.90	KSCL				0.60	5.2	3.5																				
								0.80	5.2	3.4																				
	3	0.90	1.25	KSLC				1.00	5.1	3.7																				
								1.25	5.4	2.9																				
	4	1.25	1.60	CLKS				1.50	5.1	3.6																				
	5	1.60	1.95	KSLC				1.75	5.4	3.7																				
	6	1.95	2.30	KS				2.00	5.6	3.4																				
											6	2.00	2.20					0.022												
								2.25	6.1	2.4																				
	7	2.30	2.45	KS							7	2.30	2.45	S3	Ps			0.122												
	8	2.45	2.70	FSCL				2.50	6.0	1.6																				
											8	2.50	2.70		Pl			1.599												
	9	2.70	3.95	KS				2.75	6.4	3.7																				
								3.00	6.3	1.7	9	2.80	3.00		Ps			0.157												
								3.25	6.5	1.6																				
								3.50	6.4	1.8																				
								3.75	6.6	1.8																				
	10	3.95	4.15	FSLC				4.00	6.7	1.6																				
	11	4.15	4.30	LS				4.25	7.0	2.0	12	4.20	4.30		Ps			0.12												
53	1	0.00	0.15	LC				0.10	5.0	2.6	1	0.00	0.10					< 0.02												
	2	0.15	0.40	LC				0.30	6.1	4.1																				
	3	0.40	0.90	ZLMC				0.60	6.5	4.9																				
								0.80	6.7	4.9																				
	4	0.90	1.25	ZLMC				1.00	6.7	4.7																				
											4	1.00	1.20					< 0.02												
								1.25	6.1	1.6																				
	5	1.25	1.90	ZLC				1.50	6.9	1.5	5	1.40	1.60	S2	Pc			1.358												
								1.75	7.3	1.5																				
	6	1.90	2.30	SCL				2.00	7.1	1.4																				
											6	2.00	2.20		Pl			1.202												
								2.25	7.1	1.4																				
	7	2.30	2.60	KS				2.50	7.5	1.5																				
	8	2.60	2.80	ZLC				2.75	6.7	1.2																				
	9	2.80	3.20	KS				3.00	7.1	1.5																				
											9	3.00	3.20		Ps			0.106												
54	1	0.00	0.20	SCL				0.10	4.8	2.7	1	0.00	0.10					< 0.02												
	2	0.20	0.45	LC				0.30	4.7	3.0																				
	3	0.45	0.90	FSMC				0.60	6.1	4.4																				
								0.80	6.1	4.8																				
	4	0.90	1.20	SMC				1.00	5.8	4.3																				
											4	1.00	1.20					< 0.02												
	5	1.20	1.40	SLMC				1.25	5.6	1.9	5	1.20	1.40	S2	Pc			0.23												
	6	1.40	2.50	CLS				1.50	5.3	1.3																				
								1.75	5.6	1.3																				
								2.00	5.7	1.3	6	1.80	2.00		Pl			1.206												
								2.25	6.0	1.4																				
								2.50	6.1	1.4																				
	7	2.50	3.00	KS				2.75	6.2	1.4																				
								3.00	6.2	1.4	8	2.80	3.00		Ps			0.503												
	8	3.00	4.10	KS				3.25	6.2	1.4																				
								3.50	6.2	1.4																				
								3.75	6.2	1.4																				
								4.00	6.1	1.4	10	3.80	4.00		Ps			0.369												
	9	4.10	4.60	KS				4.25	5.9	1.6																				
								4.50	6.0	1.6																				
	10	4.60	5.10	ZLC				4.75	6.2	1.6																				
								5.00	6.5	1.6																				
	11	5.10	5.30	ZLC				5.25	7.0	1.6	13	5.10	5.30		Pc			1.703												
55	1	0.00	0.10	CS				0.10	4.5	3.0	1	0.00	0.10					< 0.02						17	4.6					
	2	0.10	0.40	FS				0.30	4.5	3.0																				
	3	0.40	0.95	LS				0.60	4.2	3.3	3	0.50	0.60					< 0.02						14	4.9					
								0.80	4.0	3.2																				
	4	0.95	1.50	S				1.00	4.0	3.2																				
								1.25	4.8	4.0																				
								1.50	4.5	4.7																				
	5	1.50	2.40	KS				1.75	4.3	4.3																				
								2.00	4.4	3.8																				
								2.25	4.5	4.5																				
	6	2.40	3.15	KS				2.50	4.5	4.0																				
								2.75	5.0	3.8																				
								3.00	5.3	3.5	7	2.90	3.10					< 0.02												
	7	3.15	3.60	KS				3.25	5.3	2.2																				
								3.50	5.7	2.2	8	3.30	3.50					0.015												
	8	3.60	3.80	KS				3.75	6.0	1.6	9	3.60	3.80	S4	Ps			0.445												
	9	3.80	4.25	KS				4.00	6.2	1.9																				
											10	4.00	4.20					< 0.02												
								4.25	6.3	2.0																				
56	1	0.00	0.15	FSCL				0.10	4.5	3.2	1	0.00	0.10					< 0.02						43	4.4					
	2	0.15	0.65	CLFS				0.30	4.1	3.2																				
								0.60	5.1	2.9																				
	3	0.65	1.00	KS				0.80	5.1	3.8																				
								1.00	5.1	4.1																				
	4	1.00	2.00	KS				1.25	5.4	4.3																				
								1.50	5.4	4.5																				
								1.75	5.2	4.7																				
											6	1.80	2.00					< 0.02												
	5	2.00	2.40	KS				2.25	5.6	5.0	7	2.10	2.30					< 0.02												
	6	2.40	2.70	KS				2.50	5.6	1.8																				
											8	2.50	2.70	S3	Ps			0.107												
	7	2.70	3.10	SCL				2.75	6.5	1.5																				
								3.00	6.2	1.3	9	2.80	3.00		Pl			0.54												
57	1	0.00	0.40	SL				0.10	4.5	2.2	1	0.00	0.10					< 0.02						23	4.7					
								0.30	4.5	2.1																				
	2	0.40	0.80	SL				0.60	5.6	2.4																				
								0.80	5.1	2.2																				
	3	0.80	1.30	KS				1.00	5.3	3.6																				
								1.25	5.4	4.0																				
	4	1.30	1.60	KS				1.50	5.4	4.0																				
	5	1.60	2.25	KS				1.75	5.4	4.8																				
								2.00	5.3	4.8																				
								2.25	5.2	4.5																				
	6	2.25	2.55	KS				2.50	5.1	2.2	7	2.30	2.50					< 0.02												
	7	2.55	3.20	KS				2.75	5.3	1.9																				
								3.00	5.5	1.9	8	2.80	3.00	S3	Ps			0.076												
	8	3.20	3.50	KS				3.25	5.4	1.9																				
								3.50	5.6	1.8	9	3.30	3.50		Ps			0.391												
	9	3.50	3.80	KS				3.75	5.9	1.5	10	3.60	3.80		Ps			0.125												

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
58	1	0.00	0.25	SCL				0.10	4.1	1.9	1	0.00	0.10				< 0.02						23	4.4					
	2	0.25	0.75	SCL				0.30	4.1	2.1																			
								0.60	4.8	3.7																			
	3	0.75	1.00	CLS				0.80	5.1	5.8																			
								1.00	5.5	5.6																			
	4	1.00	1.40	CLS				1.25	6.0	5.8																			
	5	1.40	2.05	CLS				1.50	6.0	6.1																			
								1.75	6.1	5.7																			
								2.00	5.7	3.9																			
	6	2.05	3.00	FSLC				2.25	4.8	3.2																			
								2.50	4.7	3.0	6	2.30	2.50				< 0.02												
								2.75	4.5	2.8																			
								3.00	4.5	2.9																			
	7	3.00	3.35	LC				3.25	4.5	2.6																			
	8	3.35	3.70	CLS				3.50	4.6	2.9																			
	9	3.70	4.60	CLS				3.75	4.6	2.9																			
								4.00	4.5	2.9																			
								4.25	4.5	3.0																			
								4.50	4.6	2.8																			
	10	4.60	4.90	CLS				4.75	5.4	2.7	12	4.70	4.90				< 0.02												
	11	4.90	5.30	ZLMC				5.00	5.3	1.7																			
											13	5.00	5.20	S5	Pc		4.022												
								5.25	5.3	1.3																			
	12	5.30	5.60	ZLMC				5.50	5.6	1.4	14	5.40	5.60		Pc		4.724												
59	1	0.00	0.10	FSCL				0.10	4.1	1.6																			
	2	0.10	0.70	FSCL				0.30	4.3	2.0																			
								0.60	4.1	2.5	2	0.50	0.60				< 0.02						46	4.2					
	3	0.70	1.00	FSCL				0.80	4.8	3.1																			
								1.00	5.2	2.9																			
	4	1.00	1.55	FSCL				1.25	5.1	3.4																			
								1.50	4.7	2.7	4	1.30	1.50				< 0.02												
	5	1.55	2.00	CLFS				1.75	4.5	2.6																			
								2.00	4.5	2.9																			
	6	2.00	2.30	FSLC				2.25	4.4	2.8																			
	7	2.30	2.60	FSLC				2.50	4.2	2.9																			
	8	2.60	3.20	CLS	J			2.75	4.1	2.8																			
								3.00	4.2	2.5	9	2.90	3.10					0.006	0	2			10	4.5	5.3	0.03	0.000		
	9	3.20	3.90	ZLC				3.25	4.5	2.0																			
								3.50	6.3	1.6	10	3.40	3.60	S4	Pc		2.516												
								3.75	6.9	1.8																			
60	1	0.00	0.40	CLS				0.10	4.1	1.9																			
								0.30	4.0	2.1	1	0.20	0.30				< 0.02						29	4.2		0.01			
	2	0.40	0.85	SCL				0.60	4.4	2.5																			
								0.80	4.8	2.9																			
	3	0.85	1.05	S				1.00	5.1	2.8																			
	4	1.05	1.60	CLS				1.25	5.4	3.7																			
								1.50	5.8	4.2																			
	5	1.60	2.20	LC				1.75	6.0	4.3																			
								2.00	6.4	3.4	5	1.80	2.00				< 0.02												
	6	2.20	2.60	LMC				2.25	6.2	3.4																			
								2.50	5.8	3.6																			
	7	2.60	2.95	LMC				2.75	5.6	3.5																			
	8	2.95	3.25	MC				3.00	4.6	2.7																			
											8	3.00	3.20				0.037												
								3.25	5.3	1.6																			
	9	3.25	3.80	SLC				3.50	5.4	1.5	9	3.40	3.60	S4	Pc		1.191												
								3.75	5.7	1.5																			
	10	3.80	4.00	SCL				4.00	5.8	1.6	10	3.80	4.00		Pl		0.598												
61	1	0.00	0.10	CL				0.10	4.4	1.9	1	0.00	0.10				< 0.02												
	2	0.10	0.35	SCL				0.30	5.1	2.6																			
	3	0.35	0.50	FSCL																									
	4	0.50	0.95	MC				0.60	5.7	3.3																			
								0.80	6.1	3.7																			
	5	0.95	1.25	MC				1.00	6.3	3.9																			
								1.25	6.2	4.1																			
	6	1.25	1.80	MC				1.50	6.4	4.7	6	1.40	1.60				< 0.02												
								1.75	6.5	4.5																			
	7	1.80	2.05	ZLC				2.00	6.3	2.8	7	1.80	2.00				0.023												
	8	2.05	2.60	FSLC				2.25	6.5	1.9																			
								2.50	6.7	2.0	8	2.30	2.50	S3	Pc		1.458												
	9	2.60	3.20	FSLC				2.75	6.7	2.1																			
								3.00	6.7	1.5	9	2.80	3.00		Pc		1.304												
	10	3.20	4.00	ZLC				3.25	6.7	1.4																			
								3.50	6.7	1.3	10	3.30	3.50		Pc		1.212												
								3.75	6.7	1.4																			
								4.00	6.8	1.5																			
62	1	0.00	0.05	CL																									
	2	0.05	0.70	CL				0.10	4.0	2.0																			
								0.30	4.3	2.5																			
								0.60	5.1	3.0																			
	3	0.70	0.90	SL				0.80	5.4	3.2																			
	4	0.90	1.10	CLS				1.00	5.2	3.4																			
	5	1.10	1.40	LS				1.25	5.5	3.2																			
	6	1.40	2.50	KS				1.50	5.4	3.7																			
								1.75	5.5	5.1																			
								2.00	5.7	5.4																			
								2.25	5.7	6.1																			
								2.50	5.8	6.1	7	2.30	2.50				< 0.02												
	7	2.50	3.20	KS				2.75	5.9	6.3																			
								3.00	6.0	6.5																			
	8	3.20	3.85	KS				3.25	5.8	6.6																			
								3.50	6.1	5.6	9	3.40	3.60				< 0.02												
								3.75	6.0	4.6																			
	9	3.85	4.40	KS				4.00	6.0	4.2																			
											10	4.00	4.20				< 0.02												
								4.25	6.0	4.4																			
63	1	0.00	0.10	LC				0.10	4.0	2.3																			
	2	0.10	0.85	LC				0.30	4.2	2.7																			
								0.60	5.6	3.6																			
								0.80	5.0	3.9																			
	3	0.85	1.10	LS				1.00	5.0	3.4	3	0.90	1.10				< 0.02												
	4	1.10	1.40	S				1.25	5.2	6.0																			
	5	1.40	1.65	SCL				1.50	4.8	2.9	5	1.40	1.60				< 0.02												
	6	1.65	2.40	KS				1.75	5.6	4.2	6	1.70	1.90				< 0.02												
								2.00	6.2	4.9																			
								2.25	6.3	3.2																			
	7	2.40	2.65	ZLC				2.50	6.3	1.2	7	2.40	2.60	S3	Pc		1.413												
	8	2.65	3.00	KS				2.75	6.8	1.9	8	2.70	2.90		Ps		0.065												
								3.00	6.9	1.8																			
	9	3.00	3.15	KS																									
	10	3.15	3.60	KS				3.25	6.0	2.5	9	3.20	3.40		Ps		0.11												
								3.50	6.1	2.1																			
	11	3.60	3.65	ZLC																									
	12	3.65	4.40	KS				3.75	6.6	2.4																			
								4.00	6.8	2.7																			
								4.25	6.6	3.2																			

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
64	1	0.00	0.30	CL				0.10	4.4	2.2																				
								0.30	4.6	2.7																				
	2	0.30	1.00	LC				0.60	5.7	4.1																				
								0.80	5.7	3.7																				
								1.00	6.0	3.4																				
	3	1.00	1.40	S				1.25	5.8	3.5																				
	4	1.40	2.40	KS				1.50	5.7	3.2																				
								1.75	5.7	4.1																				
								2.00	5.7	4.2	5	1.80	2.00				< 0.02													
								2.25	5.7	6.0																				
	5	2.40	3.00	KS				2.50	5.8	5.9																				
								2.75	6.0	4.3	6	2.60	2.80				< 0.02													
								3.00	6.1	5.1																				
	6	3.00	3.70	KS				3.25	6.0	6.9																				
								3.50	6.0	7.3																				
	7	3.70	4.65	KS				3.75	6.2	7.4																				
								4.00	6.2	5.0																				
								4.25	6.0	4.7																				
								4.50	6.3	4.4	9	4.30	4.50				< 0.02													
	8	4.65	4.75	KS				4.75	6.0	2.9																				
65	1	0.00	0.30	FSCL				0.10	4.4	2.3																				
								0.30	4.7	2.7																				
	2	0.30	0.90	FSL				0.60	6.5	3.4																				
								0.80	6.7	3.6																				
	3	0.90	1.40	FSLC				1.00	6.0	3.1																				
								1.25	4.5	2.8																				
	4	1.40	1.60	CLS				1.50	3.9	2.2	4	1.40	1.60					0.017	0	7			37	3.8	5.3	0.01	0.000		
	5	1.60	1.80	SCL				1.75	4.2	2.3																				
	6	1.80	2.10	CLS				2.00	4.6	2.0	6	1.80	2.00				< 0.02													
	7	2.10	3.40	ZLC				2.25	6.1	1.2																				
								2.50	6.4	1.4	7	2.30	2.50	S3	Pc		1.533													
								2.75	7.1	1.6																				
								3.00	7.1	1.5																				
											8	3.00	3.20		Pc		1.274													
								3.25	7.1	1.6																				
66	1	0.00	0.30	FSCL				0.10	4.5	2.4																				
								0.30	4.6	2.6																				
	2	0.30	0.90	S				0.60	5.3	3.1																				
								0.80	5.7	3.0																				
	3	0.90	1.25	SL				1.00	5.6	3.1																				
								1.25	6.1	3.7																				
	4	1.25	1.75	S				1.50	6.0	4.4																				
								1.75	6.0	3.3																				
	5	1.75	2.00	LS				2.00	5.7	2.8	5	1.80	2.00				< 0.02													
	6	2.00	2.70	S				2.25	6.0	3.2																				
								2.50	6.2	4.4																				
	7	2.70	2.95	KS				2.75	5.9	3.1	7	2.70	2.90				< 0.02													
	8	2.95	3.30	KS				3.00	6.0	4.5																				
											8	3.00	3.20				< 0.02													
								3.25	6.1	5.0																				
	9	3.30	3.90	KS				3.50	6.1	3.8																				
											9	3.50	3.70				< 0.02													
								3.75	6.1	3.9																				
67	1	0.00	0.60	LC				0.10	4.4	3.3																				
								0.30	4.6	2.7																				
								0.60	6.2	3.9																				
	2	0.60	0.85	LC				0.80	6.7	5.3																				
	3	0.85	1.40	MC				1.00	6.4	4.7																				
											4	1.00	1.20				< 0.02													
								1.25	4.4	2.9																				
	4	1.40	2.10	ZLC				1.50	5.0	1.5																				
								1.75	6.2	1.7																				
								2.00	6.8	1.6	5	1.80	2.00	S2	Pc		1.988													
	5	2.10	2.25	KS				2.25	6.7	1.4																				
	6	2.25	2.40	ZLC							6	2.25	2.40		Pc			0.567	278	323			45	3.8	2.3	0.12	0.012		
	7	2.40	4.10	KS				2.50	6.7	1.5																				
								2.75	6.6	1.6																				
								3.00	6.5	1.8																				
								3.25	6.4	1.8																				
								3.50	6.7	1.7	8	3.30	3.50		Ps		0.089													
								3.75	6.4	1.8																				
								4.00	6.6	1.9																				
	8	4.10	4.80	ZLC		SS		4.25	7.0	1.8	10	4.20	4.40		Pc			1.034	560	596			36	3.9	2.1	0.16	0.021		
								4.50	7.5	2.2																				
								4.75	7.6	5.8																				
68	1	0.00	0.10	LKS				0.10	5.0	2.7																				
	2	0.10	0.25	LKS																										
	3	0.25	0.55	KSLC				0.30	5.6	3.0																				
	4	0.55	0.70	KS				0.60	6.3	3.2																				
	5	0.70	0.90	SL				0.80	6.7	2.6	5	0.70	0.90				< 0.02													
	6	0.90	1.50	KS				1.00	6.1	2.7																				
								1.25	6.1	2.2																				
								1.50	5.8	1.7	6	1.30	1.50	S1	Ps		0.031													
	7	1.50	2.30	SCL				1.75	5.5	1.8																				
								2.00	5.7	1.8	7	1.80	2.00		Pl		0.151													
								2.25	5.6	1.8																				
	8	2.30	2.70	KS				2.50	5.7	1.6	8	2.40	2.60		Ps		0.314													
	9	2.70	3.50	KS				2.75	5.8	1.6																				
								3.00	5.7	1.7																				
								3.25	5.7	1.9																				
								3.50	6.6	2.0	10	3.30	3.50		Ps		0.05													
	10	3.50	3.75	ZLC				3.75	6.4	1.6																				
69	1	0.00	0.40	SCL				0.10	5.0	2.8																				
								0.30	5.0	2.8																				
	2	0.40	0.70	CLS				0.60	5.1	2.8																				
	3	0.70	2.55	S				0.80	5.3	2.8																				
								1.00	5.8	3.0																				
								1.25	5.8	3.2																				
								1.50	5.9	3.1																				
								1.75	5.3	3.3																				
								2.00	5.7	3.2																				
								2.25	5.7	3.1																				
								2.50	6.4	3.1																				
	4	2.55	2.85	SCL				2.75	6.6	3.6	7	2.60	2.80				< 0.02													
	5	2.85	3.10	SLC				3.00	7.1	4.1	8	2.90	3.10				< 0.02													
	6	3.10	4.05	KS				3.25	6.9	6.0																				
								3.50	6.3	3.3	9	3.30	3.50				< 0.02													
								3.75	6.3	6.5																				
								4.00	6.2	4.2	10	3.80	4.00				< 0.02													
	7	4.05	4.35	KS				4.25	6.1	3.2	11	4.10	4.30				< 0.02													
70	1	0.00	0.15	FSCL				0.10	6.6	4.3																				
	2	0.15	0.35	CLFS				0.30	6.7	3.2																				
	3	0.35	0.60	CLFS				0.60	6.8	3.8																				
	4	0.60	1.00	CLFS				0.80	6.5	4.3																				
								1.00	6.7	4.0	4	0.80	1.00					0.018	0	0			10	6.1	6.1	0.02	0.000		
	5	1.00	1.45	CLFS				1.25	6.8	2.2	5	1.20	1.40				0.02													
	6	1.45	1.70	CLFS				1.50	6.7	1.6																				
											6	1.50	1.70	S2	Pl		0.942													
	7	1.70	2.20	ZLC				1.75	6.8	1.6																				
								2.00	6.6	1.6	7	1.90	2.10		Pc		1.875													
	8	2.20	2.50	ZLMC				2.25	6.7	1.7																				
								2.50	6.7	2.0	8	2.30	2.50		Pc			1.865	1033	1057			24	4.6	2.0	0.18	0.052		

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
71	1	0.00	0.30	CL				0.10	4.6	2.1																				
								0.30	5.0	2.6																				
	2	0.30	0.80	CL																										
	3	0.80	1.25	SCL				1.00	6.2	3.6																				
								1.25	5.5	3.5																				
	4	1.25	1.90	SCL				1.50	5.4	3.4	4	1.40	1.60					0.000	0	7			20	4.4	5.2	0.01	0.009		
								1.75	5.4	3.5																				
	5	1.90	2.35	LC				2.00	4.8	3.2																				
											5	2.00	2.20					0.002	5	62			57	4.4	4.1	0.01	0.004		
								2.25	4.7	3.1																				
	6	2.35	3.20	ZLC				2.50	4.7	3.1	6	2.40	2.60					0.003	11	55			44	4.5	4.2	0.01	0.000		
								2.75	4.5	3.0																				
								3.00	4.3	2.9	7	2.80	3.00					0.001	16	48			32	4.5	4.2	0.01	0.000		
	7	3.20	4.00	ZLC	J			3.25	4.0	2.3																				
								3.50	4.0	2.2	8	3.30	3.50				< 0.02	0.027	18	98			80	3.8	3.8	0.02	0.000		
								3.75	4.1	2.2																				
								4.00	4.7	2.3	9	3.80	4.00				0.045	0.013	20	115			95	3.7	3.8	0.02	0.000		
	8	4.00	4.40	ZLC				4.25	4.9	1.7	10	4.10	4.30	S4	Pc			0.278	213	296			83	3.9	2.7	0.03	0.003		
	9	4.40	5.00	ZLC				4.50	5.9	1.5																				
								4.75	6.4	1.5	11	4.70	4.90		Pc			1.701	1155	1247			92	4.1	1.9	0.21	0.022		
								5.00	6.8	1.5																				
72	1	0.00	0.05	FSCL																										
	2	0.05	0.35	FSCL				0.10	4.2	2.2																				
								0.30	4.3	2.2																				
	3	0.35	0.85	FSCL				0.60	4.7	2.4																				
								0.80	5.1	2.9																				
	4	0.85	1.45	FSCL				1.00	5.2	2.8																				
											4	1.00	1.20					0.002	0	8			19	4.3	4.6	0.01	0.001		
								1.25	5.1	2.8																				
	5	1.45	1.85	FSCL				1.50	4.8	2.6																				
											5	1.50	1.70					0.000	0	22			27	4.2	4.5	0.01	0.000		
								1.75	4.0	2.5																				
	6	1.85	2.60	SCL				2.00	3.3	2.4																				
											6	2.00	2.20					0.005	25	81			56	3.9	3.8	0.04	0.005		
								2.25	3.2	2.1																				
								2.50	3.2	2.0																				
	7	2.60	2.90	CLS	J			2.75	2.9	1.9	7	2.60	2.80					0.008	26	69			43	4.3	4.0	0.04	0.002		
	8	2.90	3.40	SCL				3.00	3.0	1.5																				
								3.25	4.7	1.3	8	3.10	3.30	S3	Pl		1.322													
	9	3.40	5.30	ZLMC				3.50	6.0	1.2																				
								3.75	6.4	1.3																				
								4.00	6.6	1.3	9	3.80	4.00		Pc		1.561													
								4.25	6.8	1.4																				
								4.50	7.0	1.4	10	4.30	4.50		Pc		0.901													
								4.75	6.7	1.6																				
								5.00	6.7	1.4																				
								5.25	6.6	1.7																				
73	1	0.00	0.10	LC				0.10	4.6	2.2																				
	2	0.10	0.40	LC				0.30	4.4	2.3																				
	3	0.40	0.85	LMC				0.60	6.8	4.9																				
								0.80	6.6	4.1																				
	4	0.85	1.25	SL				1.00	6.7	5.9																				
								1.25	7.1	5.3																				
	5	1.25	1.60	SCL				1.50	6.8	4.9	5	1.30	1.50				< 0.02													
	6	1.60	1.85	SCL				1.75	4.8	1.3	6	1.60	1.80				< 0.02													
	7	1.85	2.60	ZLC				2.00	7.3	1.1																				
								2.25	7.5	1.5																				
								2.50	7.4	1.4	7	2.30	2.50	S2	Pc		1.887													
	8	2.60	3.00	ZLC				2.75	7.6	1.7																				
								3.00	7.5	2.2	8	2.80	3.00		Pc			0.794	389	399			10	5.5	2.5	0.08	0.060		
74	1	0.00	0.30	KS				0.10	4.6	3.0																				
								0.30	4.8	3.0																				
	2	0.30	0.45	KS																										
	3	0.45	0.80	LMC				0.60	6.6	4.0																				
								0.80	6.3	3.8																				
	4	0.80	1.20	LMC				1.00	6.6	3.8	4	0.90	1.10				< 0.02													
	5	1.20	1.90	ZLC				1.25	6.9	3.0																				
								1.50	6.7	2.0	5	1.40	1.60	S2	Pc		1.267													
								1.75	6.6	1.7																				
	6	1.90	2.30	ZLC				2.00	6.7	1.8																				
											6	2.00	2.20		Pc		1.782													
								2.25	6.7	1.7																				
	7	2.30	2.50	SCL				2.50	6.5	1.6	7	2.30	2.50		Pl		0.761													
75	1	0.00	0.30	SCL				0.10	6.3	3.6	1	0.00	0.30				0.027													
								0.30	6.3	2.5																				
	2	0.30	0.80	SCL				0.60	6.6	1.3	2	0.40	0.80	S0	Pl		0.791													
								0.80	6.7	1.0																				
	3	0.80	1.60	ZLC				1.00	7.0	1.0	3	0.80	1.20		Pc		1.701													
								1.25	7.1	1.2																				
								1.50	7.4	1.2																				
	4	1.60	1.90	SLC				1.75	7.3	1.4																				
76	1	0.00	0.05	LC							1	0.00	0.05				< 0.02													
	2	0.05	0.30	LC				0.10	4.5	1.5																				
								0.30	5.4	1.9	2	0.20	0.30				< 0.02	0.013	0	4			33	4.0	3.6	0.01	0.000		
	3	0.30	0.70	ZLC				0.60	6.2	1.7	3	0.50	0.60				< 0.02													
	4	0.70	1.20	ZLC				0.80	6.5	1.7																				
								1.00	6.4	1.5	4	0.80	1.00	S1	Pc		0.136													
	5	1.20	2.00	ZLC				1.25	6.4	1.1																				
								1.50	6.1	1.7																				
								2.00	6.3	1.4																				
	6	2.00	2.35	CLFS				2.25	6.0	1.3	5	2.00	2.30		Pl		2.1													
	7	2.35	3.00	SLC				2.50	6.0	1.4																				
								2.75	5.7	1.7	6	2.50	3.00		Pc		0.292													
77	1	0.00	0.10	CLS				0.10	4.8	2.1	1	0.00	0.10				< 0.02													
	2	0.10	0.20	LC							2	0.10	0.20				0.047													
	3	0.20	0.50	LMC				0.30	5.7	2.5																				
											3	0.30	0.50				0.036													
	4	0.50	0.80	CLS				0.60	6.2	2.1																				
								0.80	6.2	2.2	4	0.60	0.80				0.028													
	5	0.80	1.00	SLC				1.00	6.0	1.3	5	0.80	1.00	S1	Pc		0.756													
	6	1.00	1.20	KSLC							6	1.00	1.20		Pc		0.556													
	7	1.20	1.25	KS				1.25	6.2	1.2																				
78	1	0.00	0.20	CS				0.10	3.8	1.8	1	0.00	0.10				< 0.02	0.011	0	1			23	4.6	6.4	0.01	0.001		
	2	0.20	0.40	SLC				0.30	3.8	2.8																				
											2	0.30	0.40				< 0.02	0.005	41	56			15	4.8	4.1	0.02	0.000		
	3	0.40	0.85	SLC				0.60	3.8	2.8																				
											3	0.60	0.70				< 0.02	0.001	23	28			5	5.3	4.4	0.02	0.000		
								0.80	4.2	3.5																				
	4	0.85	1.65	S				1.00	6.2	2.7																				
								1.25	6.3	4.2	4	1.10	1.30				< 0.02	0.000	10	11			1	6.4	4.9	0.01	0.000		
								1.50	6.4	3.5																				
	5	1.65	2.00	SL				1.75	4.7	3.3																				
								2.00	4.3	3.1	5	1.80	2.00				< 0.02													
	6	2.00	3.50	CLS				2.25	4.8	3.4																				
								2.50	4.9	3.5	6	2.30	2.50				< 0.02													
								2.75	4.6	3.1																				
79	1	0.00	0.20	CL				0.10	4.0	1.9	1	0.00	0.10					0.016	0	3			38	4.1	5.3	0.01	0.005		
	2	0.20	0.50	LC				0.30	4.2	2.2																				
	3	0.50	0.90	LMC				0.60	5.0	2.6																				
								0.80	4.9	2.7	3	0.70	0.90				< 0.02													
	4	0.90	1.45	LMC				1.00	4.7	2.6																				
								1.25	4.7	3.1																				
	5	1.45	1.90	MC				1.50	4.8	3.0																				
								1.75	5.1	3.5																				
	6	1.90	2.10	MC				2.00	5.2	3.1	6	1.90	2.10				< 0.02													
	7	2.10	2.70	ZLMC				2.25	5.7	3.1																				
								2.50	5.8	1.4	7	2.30	2.50	S3	Pc		0.953													

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
80	1	0.00	0.15	LC				0.10	4.4	2.6																					
	2	0.15	0.60	LC				0.30	4.1	2.7																					
								0.60	5.0	3.8																					
	3	0.60	1.40	LMC				0.80	5.4	4.1																					
								1.00	5.6	3.9																					
								1.25	5.7	3.8																					
	4	1.40	1.75	LMC				1.50	5.2	3.4																					
								1.75	5.2	3.5																					
	5	1.75	2.20	CLS				2.00	5.6	3.3																					
	6	2.20	2.50	KS				2.25	5.8	4.1																					
								2.50	5.7	4.4	6	2.30	2.50					< 0.02													
	7	2.50	3.20	KS				2.75	5.7	3.9																					
								3.00	5.7	4.1	7	2.80	3.00					< 0.02													
	8	3.20	3.50	KS				3.25	5.6	2.3																					
								3.50	6.4	1.7	8	3.30	3.50	S4	Ps			0.108													
	9	3.50	4.00	KS				3.75	6.3	1.5																					
								4.00	6.4	1.4	9	3.80	4.00		Ps			0.655													
	10	4.00	4.60	ZLC				4.25	6.7	1.5																					
								4.50	7.0	1.5	10	4.30	4.50		Pc			1.759													
81	1	0.00	0.30	ZCL				0.10	4.6																						
								0.30	5.2	3.4																					
	2	0.30	0.80	MC				0.60	5.8	3.8																					
								0.80	5.7	3.9																					
	3	0.80	1.10	MC				1.00	6.2	4.2																					
	4	1.10	1.40	CLS				1.25	6.0	3.0	4	1.10	1.30					< 0.02													
	5	1.40	1.80	KS				1.50	5.1	2.3																					
											5	1.50	1.70					< 0.02													
								1.75	6.3	2.1																					
	6	1.80	3.40	KS				2.00	7.1	1.8	6	1.80	2.00	S2	Ps			0.112													
								2.25	7.0	1.8																					
								2.50	7.1	1.9																					
								2.75	7.2	1.9																					
								3.00	7.2	1.9	8	2.80	3.00		Ps			0.735													
								3.25	7.0	1.9																					
	7	3.40	4.10	FSLC			SS	3.50	7.3	1.9																					
								3.75	7.7	2.0																					
								4.00	7.7	2.1	10	3.80	4.00		Pc			0.471													
82	1	0.00	0.10	CL				0.10	4.3	2.1	1	0.00	0.10						0.015	0	4			24	4.7	6.1	0.01	0.007		
	2	0.10	0.50	LC				0.30	4.3	2.5																					
											2	0.30	0.40						0.005	23	47			24	4.7	4.3	0.03	0.005		
	3	0.50	0.85	FSLC	J			0.60	3.7	2.1																					
								0.80	3.3	1.6	3	0.60	0.80						0.096	69	157			88	4.2	3.3	0.05	0.006		
	4	0.85	1.05	FSLC				1.00	3.7	1.5	4	0.85	1.00	S1	Pc				1.546	1038	1183			145	3.9	1.8	0.14	0.020		
	5	1.05	1.35	ZLC				1.25	5.6	1.9	5	1.10	1.30		Pc				2.224	1484	1590			106	4.0	1.7	0.20	0.031		
	6	1.35	2.70	KS				1.50	5.5	1.6																					
								1.75	5.5	1.6																					
								2.00	5.6	1.8	6	1.80	2.00		Ps			0.244													
								2.25	6.2	1.8																					
								2.50	6.2	1.9	7	2.30	2.50		Ps			0.156													
	7	2.70	3.70	KS				2.75	6.4	1.8																					
								3.00	7.3	1.9	8	2.80	3.00		Ps			0.177													
								3.25	7.2	1.7																					
								3.50	6.8	1.7																					
	8	3.70	3.90	ZLC				3.75	7.4	1.8																					
								3.90	6.7	1.7																					
83	1	0.00	0.10	LC				0.10	5.0	2.8																					
	2	0.10	0.50	LC				0.30	5.2	2.9																					
	3	0.50	0.75	LC				0.60	5.2	3.0																					
	4	0.75	1.35	LMC				0.80	5.2	2.9																					
								1.00	5.2	3.0	4	0.90	1.10					< 0.02													
								1.25	5.3	3.1																					
	5	1.35	1.70	KSLMC				1.50	5.2	3.2																					
	6	1.70	2.20	KSLMC				1.75	5.4	3.3																					
								2.00	5.8	3.6	6	1.80	2.00					< 0.02													
	7	2.20	3.00	KS				2.25	5.8	4.4																					
								2.50	5.4	1.7	7	2.30	2.50	S3	Ps			0.191													
								2.75	5.4	1.9																					
								3.00	5.4	1.8	8	2.80	3.00		Ps			0.113													
	8	3.00	4.10	KS				3.25	5.6	1.8																					
								3.50	5.5	1.8	9	3.30	3.50		Ps			0.16													
								3.75	5.7	1.6																					
								4.00	5.7	1.7	10	3.80	4.00		Ps			0.166													
84	1	0.00	0.15	LC				0.10	4.4	2.1	1	0.00	0.10						0.029	0	6			64	4.3	4.4	0.01	0.011		
	2	0.15	0.50	LMC				0.30	4.4	2.2																					
	3	0.50	0.90	LMC				0.60	4.7	2.7																					
											3	0.60	0.70						0.015	0	15			32	4.2	4.3	0.01	0.000		
								0.80	5.0	3.3																					
	4	0.90	1.10	CLS				1.00	4.3	2.1	4	0.90	1.10						0.018	49	62			13	4.5	4.4	0.01	0.000		
	5	1.10	1.50	KS				1.25	5.0	2.0																					
								1.50	4.4	1.6	5	1.30	1.50	S2	Ps			0.284													
	6	1.50	2.20	KS				1.75	4.2	1.8																					
								2.00	4.3	1.8	6	1.80	2.00		Ps			0.057	0.080	22	32	2		10	4.8	2.9	0.01	0.000		
	7	2.20	2.80	KS				2.25	4.5	1.5																					
								2.50	5.0	1.5	7	2.30	2.50		Ps			0.454													
								2.75	5.0	1.3																					
85	1	0.00	0.20	LC				0.10	4.5	2.3	1	0.00	0.10						0.039	0	8			39	4.1	4.8	0.01	0.004		
	2	0.20	0.60	LMC				0.30	5.1	2.7																					
								0.60	5.0	2.8	3	0.50	0.60					< 0.02													
	3	0.60	1.40	ZLC				0.80	5.2	1.7																					
								1.00	5.6	1.8	4	0.80	1.00	S1	Pc			1.457													
								1.25	6.0	1.5	5	1.20	1.40		Pc			0.989													
	4	1.40	1.90	CLS				1.50	6.1	1.5																					
								1.75	6.1	1.5	6	1.60	1.80		Pl			0.31													
	5	1.90	2.00	SCL				2.00	6.2	1.3	7	1.90	2.00		Pl			0.52													
86	1	0.00	0.20	SCL				0.10	3.9	2.0																					
	2	0.20	0.40	KS				0.30	4.0	2.1																					
	3	0.40	0.70	KSLC				0.60	4.6	3.1																					
	4	0.70	1.00	KSL				0.80	5.8	3.8																					
								1.00	5.4	3.5																					
	5	1.00	1.30	KS				1.25	5.8	3.8																					
	6	1.30	1.90	CKS				1.50	5.7	3.5																					
								1.75	5.5	2.8																					
	7	1.90	2.60	CKS				2.00	5.2	2.0																					
								2.25	4.8	2.0																					
								2.50	5.4	2.2																					
	8	2.60	3.30	SL				2.75	5.9	2.2																					
								3.00	6.0	1.9	8	2.80	3.00					0.026													
								3.25	5.8	1.9																					
	9	3.30	3.70	KS				3.50	5.9	1.8	9	3.40	3.60					0.028													
	10	3.70	4.40	FSLC				3.75	6.2	1.5																					
								4.00	6.7	2.1	10	3.80	4.00	S4	Pc			0.153													
								4.25	7.1	2.4																					
	11	4.40	4.60	CKS				4.50	7.4	2.3	11	4.40	4.60		Ps			0.083													

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH										Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
87	1	0.00	0.10	LC				0.10	4.2	1.9																					
	2	0.10	0.40	LC				0.30	4.3	2.1																					
	3	0.40	0.90	LC				0.60	4.0	2.1																					
											3	0.60	0.70						0.015	0	27			47	4.0	4.3	0.02	0.000		
								0.80	4.0	2.1																					
	4	0.90	1.40	LC				1.00	4.0	2.1																					
								1.25	3.8	2.0																					
	5	1.40	2.05	FSCL				1.50	3.7	2.1																					
								1.75	3.7	1.8	5	1.60	1.80						0.000	16	37			21	4.2	3.9	0.01	0.001		
								2.00	3.9	2.2																					
	6	2.05	2.25	FSCL							6	2.10	2.20						0.007	0	16			19	4.2	5.5	0.01	0.000		
								2.25	3.7	2.3																					
	7	2.25	2.50	SCL				2.50	3.8	2.3	7	2.30	2.50						0.003	0	17			19	4.2	5.5	0.01	0.000		
	8	2.50	2.85	SL	J						8	2.50	2.70						0.013	19	36			17	4.2	3.8	0.00	0.000		
								2.75	3.4	2.0																					
	9	2.85	3.00	SCL				3.00	3.4	2.3	9	2.85	3.00						0.043	0	12			28	3.9	3.7	0.01	0.000		
	10	3.00	3.40	CLS				3.25	4.4	0.9																					
	11	3.40	3.70	FSLC				3.50	4.5	1.1																					
											11	3.50	3.70	S4	Pc			2.729													
88	1	0.00	0.45	CL				0.10	3.6	2.5																					
								0.30	4.1	2.8	1	0.20	0.30						0.000	0	4			32	4.3	5.6	0.01	0.000		
	2	0.45	0.75	LC				0.60	4.5	2.7																					
	3	0.75	1.00	LC				0.80	4.8	5.1																					
								1.00	4.8	5.4																					
	4	1.00	1.60	ZLC				1.25	5.0	3.0																					
								1.50	5.0	3.7	4	1.30	1.50					< 0.02													
	5	1.60	1.80	FSCL				1.75	5.2	4.2																					
	6	1.80	1.90	SL																											
	7	1.90	2.30	SL				2.00	5.4	5.7																					
								2.25	5.5	5.0																					
	8	2.30	2.80	KS				2.50	5.4	4.7																					
								2.75	5.5	4.8																					
	9	2.80	3.10	KS				3.00	5.5	4.6																					
	10	3.10	3.60	KSCL				3.25	5.7	6.0																					
								3.50	5.5	5.6																					
	11	4.00	4.90	S				4.25	5.5	4.9																					
								4.50	5.4	4.6																					
											11	4.50	4.70						0.000	4	14			10	5.0	6.1	0.01	0.000		
								4.75	5.5	4.6																					
89	1	0.00	0.10	LC				0.10	4.5	2.2																					
	2	0.10	0.40	LC				0.30	4.5	2.2																					
	3	0.40	0.65	LMC				0.60	4.7	2.7																					
	4	0.65	0.80	CLFS				0.80	4.4	2.7	4	0.70	0.80					< 0.02	0.023	35	61			26	4.8	4.2	0.04	0.006		
	5	0.80	1.05	FSCL				1.00	4.1	2.4	5	0.80	1.00						0.005	40	52			12	4.9	4.0	0.02	0.000		
	6	1.05	1.40	FSCL				1.25	3.9	2.3	6	1.20	1.40						0.011	41	53			12	4.9	4.1	0.02	0.000		
	7	1.40	1.60	ZLC	J			1.50	3.9	1.9	7	1.40	1.60						0.052	45	89			44	4.4	3.9	0.04	0.006		
	8	1.60	2.50	ZLC				1.75	3.9	1.6																					
								2.00	4.8	1.2	8	1.80	2.00	S2	Pc				1.353	945	1092			147	3.8	1.9	0.34	0.013		
								2.25	6.3	1.2																					
								2.50	6.8	1.4	9	2.30	2.50		Pc			1.986	1.700	1226	1342			116	4.0	1.8	0.44	0.051		
90	1	0.00	0.15	LC				0.10	3.9	2.9	1	0.00	0.10						0.019	11	79	1		68	4.0	3.1	0.01	0.024		
	2	0.15	0.40	LC				0.30	4.0	2.2																					
	3	0.40	0.80	KSLC				0.60	4.3	2.5	3	0.50	0.60						0.001	0	10	0		28	4.1	4.1	0.01	0.018		
								0.80	4.4	2.4																					
	4	0.80	1.10	KS				1.00	4.8	2.7																					
	5	1.10	1.60	KS				1.25	5.5	3.2																					
								1.50	4.6	3.1	5	1.30	1.50					< 0.02													
	6	1.60	1.90	KS				1.75	5.6	2.7	6	1.60	1.80					< 0.02													
	7	1.90	3.20	KS				2.00	5.7	1.2																					
								2.25	5.6	1.2																					
								2.50	6.0	1.6	7	2.30	2.50	S2	Ps			0.065													
								2.75	6.0	1.6																					
								3.00	6.5	1.6																					
	8	3.20	3.65	ZLC				3.25	6.5	1.8																					
								3.50	6.7	1.4	9	3.30	3.50		Pc			1.729													
91	1	0.00	0.10	ZLC				0.10	5.2	3.3	1	0.00	0.10					< 0.02													
	2	0.10	0.20	LMC							2	0.10	0.20					< 0.02													
	3	0.20	0.70	ZLMC				0.30	4.4	3.1																					
								0.60	4.2	2.6	3	0.50	0.60					< 0.02	0.034	0	12	2		14	4.3	4.1	0.06	0.038		
	4	0.70	1.80	ZLC				0.80	4.5	1.2																					
								1.00	4.7	1.2	4	0.80	1.00	S1	Pc			1.61													
								1.25	5.3	1.3																					
								1.50	5.7	1.3	5	1.30	1.50		Pc			0.956													
								1.75	6.0	1.3																					
	5	1.80	2.00	ZLC				2.00	6.2	1.3	6	1.80	2.00		Pc			1.704													
92	1	0.00	0.10	ZLC				0.10	4.2	3.0																					
	2	0.10	0.40	LC				0.30	4.3	2.9	2	0.20	0.30						0.029	0	6			49	4.3	4.0	0.02	0.007		
	3	0.40	0.55	LMC							3	0.40	0.50					< 0.02	0.000	42	105			63	4.3	3.8	0.07	0.005		
	4	0.55	0.80	LMC				0.60	4.0	2.4																					
											4	0.60	0.70						0.015	29	74			45	4.4	3.8	0.05	0.005		
								0.80	3.7	2.3																					
	5	0.80	1.10	LMC	J			1.00	3.9	2.1	5	0.80	1.00						0.030	38	84			46	4.4	3.8	0.04	0.001		
	6	1.10	1.40	ZLMC				1.25	3.7	1.7	6	1.20	1.40						0.034	48	107			59	4.3	3.8	0.04	0.001		
	7	1.40	2.50	ZLC				1.50	3.4	1.1																					
								1.75	4.0	1.1																					
								2.00	4.4	1.1	7	1.80	2.00	S2	Pc				2.681	1846	2156			310	3.4	1.7	0.47	0.055		
								2.25	5.4	1.0																					
								2.50	5.7	1.3	8	2.30	2.50		Pc			2.845	3.496	2418	2589			171	3.7	1.6	0.45	0.066		
93	1	0.00	0.20	FSCL				0.10	5.3	2.8																					
	2	0.20	0.60	FSCL				0.30	5.5	3.6																					
								0.60	5.5	3.9																					
	3	0.60	0.90	FSCL				0.80	5.5	4.5																					
	4	0.90	1.50	CLFS				1.00	5.4	4.7																					
								1.25	5.6	4.7																					
								1.50	5.4	4.6																					
	5	1.50	2.40	FSLC				1.75	5.4	4.5																					
								2.00	4.9	4.2																					
								2.25	5.0	4.7																					
	6	2.40	5.00	FSLC				2.50	4.8	3.8																					
								2.75	5.1	3.8																					
								3.00	4.9	3.8																					
								3.25	5.4	5.4																					
								3.50	5.5	5.5																					
								3.75	5.5	5.5																					
								4.00	5.7	5.7																					
								4.25	6.1	5.0																					
								4.50	6.0	4.8																					
								4.75	6.1	4.9																					
								5.00	6.0	4.9																					
	7	5.00	6.00	FSLC				5.50	5.8	4.8																					
								6.00	5.9	4.7																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				s-ANC_E s-Ca+s-Mg	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf							22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
94	1	0.00	0.50	CLFS				0.10	5.1	3.7																				
								0.30	5.4	3.8																				
	2	0.50	1.30	LC				0.60	5.2	4.5																				
								0.80	5.6	4.5																				
								1.00	5.6	4.6																				
								1.25	5.6	4.8																				
	3	1.30	2.00	CLS				1.50	7.8	4.9																				
								1.75	7.9	4.0																				
								2.00	6.4	4.8	6	1.80	2.00				< 0.02													
	4	2.00	2.90	SCL				2.25	6.2	5.2																				
								2.50	5.6	4.4																				
								2.75	5.1	5.0																				
	5	2.90	3.70	SLC				3.00	5.1	4.6																				
								3.25	4.8	4.3																				
								3.50	5.4	3.2																				
	6	3.70	4.40	ZLC				3.75	6.2	4.1																				
								4.00	6.4	2.8	10	3.80	4.00				< 0.02													
								4.25	6.4	2.8	11	4.20	4.40				< 0.02													
	7	4.40	5.00	ZLC				4.50	6.1	2.9																				
								4.75	6.2	4.7																				
											12	4.80	5.00				< 0.02													
95	1	0.00	0.30	SL				0.10	6.4	4.7																				
								0.30	6.2	4.6																				
	2	0.30	0.60	KS				0.60	6.5	4.9																				
	3	0.60	0.80	KS				0.80	6.7	5.1																				
	4	0.80	1.30	S				1.00	6.8	5.2																				
								1.25	6.9	5.3																				
	5	1.30	3.00	S				1.50	6.8	5.2																				
								1.75	6.7	5.1																				
								2.00	6.9	5.3																				
								2.25	6.9	5.3																				
								2.50	7.1	5.3																				
								2.75	7.2	5.2																				
								3.00	7.1	5.2																				
	6	3.00	3.60	KS				3.25	7.1	5.3																				
								3.50	7.1	5.3																				
	7	3.60	3.90	S				3.75	7.2	5.2																				
	8	3.90	4.40	KS				4.00	7.2	5.2																				
								4.25	7.1	5.4																				
	9	4.40	4.70	S				4.50	7.1	5.3																				
	10	4.70	5.10	KS				4.75	7.1	5.5																				
								5.00	7.1	5.4	2	4.80	5.00				< 0.02													
	11	5.10	5.40	S																										
	12	5.40	5.60	KS				5.50	7.0	4.9																				
	13	5.60	5.80	LS				5.75	6.9	4.8																				
	14	5.80	6.00	LS				6.00	6.9	3.9	4	5.80	6.00				< 0.02													
96	1	0.00	0.15	CLS				0.10	5.4	2.7	1	0.00	0.10				< 0.02	0.035	0	0			12	4.9	4.9	0.02	0.000		
	2	0.15	0.30	KSLMC				0.30	6.7	4.0	2	0.20	0.30				< 0.02													
	3	0.30	1.90	LMC				0.60	6.2	2.3	3	0.50	0.60	S0	Pc		2.02													
								0.80	7.5	2.3																				
								1.00	7.4	5.0	4	0.80	1.00		Pc		1.083													
								1.25	7.5	7.8																				
								1.50	7.7	7.8	5	1.30	1.50		Pc		0.241													
								1.75	7.7	7.8																				
	4	1.90	2.40	FSLMC				2.00	8.0	8.0	6	1.90	2.10				< 0.02													
								2.25	7.3	2.3																				
											7	2.30	2.40		Pc		0.194													
	5	2.40	3.00	LMC				2.50	7.2	7.0																				
								2.75	7.0	6.9																				
								3.00	6.8	6.9	8	2.80	3.00				< 0.02													
	6	3.00	3.60	LMC				3.25	7.0	6.6																				
								3.50	7.1	6.8																				
97	1	0.00	0.30	FSLC				0.10	5.2	2.8	1	0.00	0.10				0.021													
								0.30	5.2	2.2	2	0.20	0.30				< 0.02													
	2	0.30	0.50	FSLC																										
	3	0.50	1.00	LMC				0.60	4.7	2.6	3	0.50	0.60				0.018													
								0.80	4.7	2.6																				
								1.00	5.1	3.1	4	0.80	1.00				< 0.02													
	4	1.00	1.90	LMC				1.25	5.2	3.0																				
								1.50	5.3	3.7	5	1.30	1.50				< 0.02													
								1.75	5.4	3.9																				
	5	1.90	3.30	LMC				2.00	5.4	4.4																				
								2.50	6.5	6.2																				
								3.00	6.5	6.6	8	2.80	3.00				< 0.02													
	6	3.30	4.60	LMC				3.50	6.6	6.7																				
								4.00	6.8	7.1																				
								4.25	7.0	7.1																				
								4.50	6.8	6.0																				
	7	4.60	4.90	LMC																										
	8	4.90	5.30	LMC				5.00	6.9	5.7																				
98	1	0.00	0.60	KSLC				0.10	3.5	1.1	1	0.00	0.10				0.02	0.055	49	129			80	4.1	3.9	0.02	0.000		
								0.30	3.2	1.2																				
								0.60	3.2	1.2	3	0.50	0.60				0.028	0.105	157	240			83	4.2	3.0	0.02	0.000		
	2	0.60	1.10	FSCL	J			0.80	3.5	2.7																				
								1.00	3.6	2.6	4	0.80	1.00	S1	Pl		0.134	0.209	257	430			173	4.4	4.1	0.09	0.000		
	3	1.10	1.60	LC				1.25	3.7	2.7																				
								1.50	3.8	2.2	5	1.30	1.50		Pc		0.1	0.840	1636	1817	9		181	3.8	1.7	0.07	0.019		
	4	1.60	3.40	KSLC				1.75	3.9	2.3																				
								2.00	4.2	1.4	6	1.80	2.00		Pc		0.607	0.644	467	574			107	3.8	2.4	0.16	0.000		
								2.25	4.4	1.0																				
								2.50	5.8	1.1	7	2.30	2.50		Pc		0.648													
								2.75	5.8	1.2																				
								3.00	5.8	1.2	8	2.80	3.00		Pc		0.804													
								3.25	6.0	1.1																				
	5	3.40	3.60	LMC				3.50	6.6	1.4	9	3.40	3.60		Pc		1.15	1.134	666	670			4	5.8	2.1	0.05	0.017		
99	1	0.00	0.10	FSLC				0.10	4.9	3.5																				
	2	0.10	0.40	LC				0.30	4.0	1.7																				
	3	0.40	1.30	SLC	J			0.60	3.7	2.5	3	0.50	0.60					0.014	20	40			20	4.6	4.8	0.02	0.001		
								0.80	3.6	2.3																				
								1.00	3.7	2.2	4	0.80	1.00					0.015	10	31	2		21	4.2	3.8	0.02	0.015		
								1.25	3.6	1.9																				
	4	1.30	1.50	KS				1.50	4.0	2.1	5	1.30	1.50					0.015	0	10	2		14	4.4	4.5	0.01	0.008		
	5	1.50	2.30	LC				1.75	3.7	2.3																				
								2.00	3.8	2.3	6	1.80	2.00	S2	Pc			0.124	111	150			39	4.4	3.4	0.02	0.007		
								2.25	4.3	2.0																				
	6	2.30	2.80	LC				2.50	4.3	1.9	7	2.30	2.50		Pc			0.611	410	452			42	4.4	2.5	0.05	0.010		
								2.75	4.6	1.4																				
	7	2.80	3.50	KSLC				3.00	5.0	1.5																				
								3.25	5.3	1.0																				
								3.50	5.5	2.0	9	3.30	3.50		Pc		2.621													
	8	3.50	4.10	SLC				3.60	5.6	2.5																				
								4.00	5.4	3.5	10	3.80	4.00				0.028													
	9	4.10	5.00	LS				4.25	5.5	2.6																				
								4.50	5.4	3.4	11	4.30	4.50				< 0.02													
100	1	0.00	0.30	LMC				0.10	4.7	2.4	1	0.00	0.10				0.021													
								0.30	4.1	2.3	2	0.20	0.30					0.050	65	101	2		36	4.4	3.3	0.02	0.024		
	2	0.30	0.90	LMC	J			0.60	3.4	2.0	3	0.50	0.60				0.037	0.044	53	135			82	3.9	3.6	0.09	0.000		
								0.80	3.4	1.7																				
	3	0.90	1.60	LMC				1.00	3.7	2.5	4	0.90	1.00	S1	Pc		0.417	0.381	260	325			65	4.0	2.6	0.13	0.000		
								1.25	5.0	2.4																				
								1.50	6.2	5.9	5	1.30	1.50		Pc		0.209													
	4	1.60	2.30	LMC				1.75	6.4	7.0																				
								2.00	6.3	7.3	6	1.80	2.00				0.027	0.030	0	5			10	6.4	6.4	0.04	0.038		
								2.25	6.5	7.1																				
	5	2.30	3.20	SLC				2.50	6.5	7.3																				
								2.75	6.4	7.4																				
								3.00	6.4	7.4	8	2.80	3.00					0.002	0	0			10	6.2	6.7	0.02	0.015		0.01

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS						Neutralising Cap.
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	$a\text{-}S_{RAS}$	$a\text{-}S_{NAS}$	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	$s\text{-}Ca_A+s\text{-}Mg_A$	$s\text{-}ANC_{BT}$	$s\text{-}ANC_E$
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						$s\text{-}ANC_E$	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
101	1	0.00	0.30	SCL				0.10	5.4	2.8	1	0.00	0.10					< 0.02													
								0.30	5.6	2.9																					
	2	0.30	0.60	LKS				0.60	4.0	2.9	3	0.50	0.60					< 0.02	0.001	43	53			10	5.1	4.2	0.01	0.000		
	3	0.60	0.90	SL				0.80	4.2	2.4																					
	4	0.90	2.40	LKS				1.00	4.3	2.3																					
								1.25	4.1	2.4																					
								1.50	3.9	2.2	5	1.30	1.50					< 0.02	0.000	34	40			6	5.3	4.2	0.01	0.000		
								1.75	3.9	2.3																					
								2.00	4.1	2.8	6	1.80	2.00					< 0.02	0.000	19	25			6	5.2	4.4	0.01	0.000		
								2.25	4.3	3.0																					
	5	2.40	3.00	LKS				2.50	4.0	2.8																					
								2.75	4.5	3.0	7	2.60	2.80					< 0.02	0.000	36	40			4	5.5	4.2	0.01	0.000		
								3.00	5.5	3.0																					
	6	3.00	4.50	LKS				3.25	5.8	3.5																					
								3.50	6.5	2.7	8	3.30	3.50	S3	Ps			0.072													
								3.75	6.3	1.4																					
								4.00	6.1	2.0	9	3.80	4.00					< 0.02													
								4.25	6.1	2.0																					
								4.50	6.0	1.8	10	4.30	4.50					< 0.02													
	7	4.50	4.70	SLC				4.70	6.0	4.3	11	4.50	4.70					0.028													
102	1	0.00	0.20	CLFS				0.10	4.6	3.7	1	0.00	0.10					0.025													
	2	0.20	0.80	KSLMC				0.60	4.9	3.7	3	0.50	0.60					< 0.02													
								0.80	5.0	3.5																					
	3	0.80	1.40	LMC				1.00	4.8	3.3																					
								1.25	4.9	3.2	5	1.20	1.40					< 0.02													
	4	1.40	2.50	MC				1.50	5.0	3.5																					
								1.75	5.2	3.6																					
								2.00	5.5	4.3																					
								2.25	5.6	6.1																					
								2.50	5.9	5.2																					
	5	2.50	3.00	MC				2.75	5.9	5.2																					
								3.00	6.1	5.0																					
	6	3.00	3.50	SMC				3.25	6.2	6.8																					
103	1	0.00	0.30	SCL				0.10	4.3	2.6	1	0.00	0.10					< 0.02													
								0.30	4.4	3.0																					
	2	0.30	1.20	SL				0.60	4.5	3.4	2	0.50	0.60						0.000	0	6			17	4.6	5.8	0.01	0.000		
								0.80	4.7	3.2																					
								1.00	4.7	3.3																					
	3	1.20	1.60	S				1.25	4.6	2.8																					
								1.50	5.1	3.6	4	1.30	1.50					< 0.02	0.000	37	40			3	5.5	4.1	0.01	0.000		
	4	1.60	2.00	KS				1.75	5.2	3.9																					
								2.00	5.2	3.7	5	1.80	2.00					< 0.02	0.000	29	30			1	6.1	4.3	0.01	0.000		
	5	2.00	2.50	KS				2.25	5.0	3.1																					
								2.50	5.0	3.1																					
	6	2.50	2.90	KS							7	2.60	2.70					< 0.02													
								2.75	5.0	3.1																					
	7	2.90	3.30	KS				3.00	5.2	1.9																					
											8	3.00	3.20	S3	Ps			0.071													
								3.25	5.5	2.2																					
	8	3.30	4.00	SLC				3.50	5.9	2.0																					
											9	3.50	3.70					< 0.02													
								3.75	6.1	4.7																					
								4.00	6.0	4.7																					
	9	4.00	4.80	SLMC				4.25	6.2	5.6																					
											10	4.30	4.50					< 0.02													
104	1	0.00	0.10	KSCL				0.10	4.5	3.0	1	0.00	0.10						0.005	0	2	0		10	5.0	4.9	0.01	0.009		
	2	0.10	0.60	SLMC				0.30	4.7	3.0	2	0.20	0.30						0.014	0	2	0		11	4.9	5.3	0.01	0.011		
								0.60	4.8	3.3																					
	3	0.60	1.10	KSLC				0.80	4.9	3.2																					
								1.00	5.4	3.3	4	0.80	1.00					0.022													
	4	1.10	1.50	LKS				1.25	5.2	1.5																					
								1.50	5.3	1.3	5	1.30	1.50	S2	Ps			0.614													
	5	1.50	2.40	LMC				1.75	5.8	2.4																					
								2.00	6.0	5.7	6	1.80	2.00					0.036													
								2.25	6.2	6.1																					
105	1	0.00	0.30	CLFS				0.10	4.2	1.7	1	0.00	0.10					< 0.02													
								0.30	4.5	2.3	2	0.20	0.30						0.011	0	6	2		39	4.5	4.2	0.01	0.007		
	2	0.30	0.50	LMC																											
	3	0.50	1.20	KSLMC				0.60	4.4	2.7	3	0.50	0.60					< 0.02	0.000	9	43			34	4.4	4.4	0.02	0.000		
								0.80	4.5	2.6																					
								1.00	4.6	2.7	4	0.80	1.00						0.005	0	11			23	4.5	5.6	0.01	0.000		
	4	1.20	1.70	KS				1.25	4.6	2.6																					
								1.50	5.0	2.6	5	1.30	1.50					< 0.02													
	5	1.70	4.00	KS				1.75	5.1	2.3																					
								2.00	5.3	1.3	6	1.80	2.00	S2	Ps			0.165													
								2.25	5.5	1.4																					
								2.50	5.8	1.5	7	2.30	2.50		Ps			0.288													
								3.00	6.0	1.5																					
								3.50	6.1	1.5	9	3.30	3.50		Ps			0.276													
								3.75	6.3	1.4																					
								4.00	6.2	1.3																					
	6	4.00	4.80	LMC				4.25	6.3	3.0																					
								4.50	6.2	3.0	11	4.30	4.50					< 0.02													
								4.75	6.2	5.8																					
106	1	0.00	0.20	FSCL				0.10	4.3	2.6	1	0.00	0.10					< 0.02													
	2	0.20	0.70	CLFS				0.30	4.5	2.5																					
								0.60	5.2	3.0																					
	3	0.70	1.20	FSCL				0.80	5.0	3.0																					
								1.00	5.3	3.6	4	0.80	1.00					< 0.02													
	4	1.20	2.40	SCL				1.25	5.4	3.6																					
								1.50	6.2	2.0	5	1.30	1.50	S2	Pl			0.151													
								1.75	6.5	1.5																					
								2.00	6.7	1.6	6	1.80	2.00		Pl			1.111													
								2.25	6.7	1.5																					
	5	2.40	3.60	KS				2.50	6.1	1.6	7	2.40	2.60		Ps			0.126													
								2.75	6.2	2.2																					
								3.00	6.3	2.3	8	2.80	3.00		Ps			0.047													
								3.25	6.2	2.4																					
								3.50	6.3	2.3	9	3.30	3.50		Ps			0.033													
	6	3.60	4.00	KS				3.75	6.2	3.1																					
								4.00	6.0	3.0	10	3.80	4.00					< 0.02	0.097	78	82			4	5.7	3.8	0.02	0.000		
	7	4.00	4.80	LMC				4.25	6.1	2.8																					
								4.50	6.1	5.3	11	4.30	4.50					< 0.02	0.006	49	54			5	5.8	4.1	0.02	0.001		
								4.75	5.8	4.8																					
107	1	0.00	0.30	KSCL				0.10	5.1	3.4																					
								0.30	5.4	3.4																					
	2	0.30	0.80	CKS				0.60	5.2	3.8	2	0.50	0.60					< 0.02													
								0.80	4.8	3.6																					
	3	0.80	2.30	LMC				1.00	5.0	3.7																					
								1.25	5.2	5.2																					
								1.50	5.8	5.6																					
								1.75	5.9	5.6																					
								2.00	6.0	5.0																					
	4	2.30	3.50	LMC				2.50	6.2	4.2																					
								3.00	6.0	4.6																					
											4	3.30	3.50					< 0.02													

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH									Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
(m)								(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
108	1	0.00	0.15	LC				0.10	4.6	3.0																				
	2	0.15	0.30	LC				0.30	5.0	2.6																				
	3	0.30	1.10	KSLMC				0.60	5.3	3.1																				
								0.80	5.2	2.8																				
								1.00	5.0	2.8	4	0.80	1.00				< 0.02													
	4	1.10	1.70	LMC				1.25	4.7	2.9																				
								1.50	4.9	3.1	5	1.30	1.50					0.005	0	14			25	4.5	5.1	0.04	0.010		
	5	1.70	3.60	LMC				1.75	6.2	6.2																				
								2.00	6.7	6.7																				
								2.25	7.0	7.2																				
								2.50	7.3	7.4																				
								3.00	7.5	7.1																				
								3.50	7.3	7.3	9	3.30	3.50			-0.054 -0.015		0.005	0	0			10	6.5	7.0	0.03	0.030		0.08
	6	3.60	3.80	LMC		SS																								
	7	3.80	4.10	LMC				4.00	7.6	7.9	10	3.80	4.00			-0.050 -0.009		0.000	0	0			10	6.8	7.3	0.02	0.014		0.08
	8	4.10	4.60	SLC				4.50	7.6	7.6	11	4.30	4.50			-0.010 -0.008		0.000	0	0			10	6.5	6.5	0.01	0.013		0.02
	9	4.60	5.70	SLMC				5.00	7.0	6.5																				
								5.50	7.1	6.1																				
109	1	0.00	0.70	CLFS				0.10	4.2	2.5																				
								0.30	4.0	2.7																				
								0.60	4.0	2.6	3	0.50	0.60					0.010	55	103			48	4.6	4.3	0.01	0.000		
	2	0.70	1.30	S				0.80	4.1	2.3																				
								1.00	5.2	2.9	4	0.80	1.00					0.002	50	62			12	5.0	4.1	0.01	0.000		
								1.25	5.2	2.8																				
	3	1.30	1.70	KS				1.50	5.2	3.5	5	1.30	1.50				< 0.02													
	4	1.70	1.80	LC				1.75	5.6	3.1																				
	5	1.80	3.30	LC				2.00	5.1	1.0	6	1.80	2.00	S2	Pc		0.144													
								2.25	5.1	1.0																				
								2.50	5.5	1.2	7	2.30	2.50		Pc		1.529													
								2.75	5.9	1.3																				
								3.00	6.3	1.1	8	2.80	3.00		Pc		0.963													
								3.25	6.5	1.4																				
	6	3.30	4.60	CL				3.50	6.6	1.2																				
								3.75	6.9	1.1																				
								4.00	6.9	1.6	10	3.80	4.00		Pl		1.087													
								4.25	6.7	1.1																				
								4.50	6.9	1.0																				
	7	4.60	7.30	KSLC				4.75	6.9	1.7																				
								5.00	6.9	1.3	12	4.80	5.00		Pc		1.254													
								5.50	6.9	2.0	13	5.30	5.50		Pc		0.108													
								6.00	7.1	1.8																				
								6.50	7.0	1.7	15	6.30	6.50		Pc			1.311	747	872			125	3.5	2.1	0.26	0.021		
								7.00	7.0	2.4																				
	8	7.30	7.90	SLC				7.50	6.6	2.5																				
	9	7.90	8.00	KS				8.00	6.8	2.2	18	7.90	8.00				< 0.02													
	10	8.00	8.40	KSLC							19	8.30	8.40		Pc		0.273													
110	1	0.00	0.50	KSCL				0.10	5.0	2.6	1	0.00	0.10				< 0.02													
	2	0.50	0.80	KSCL				0.60	4.5	3.4	3	0.50	0.60				< 0.02													
								0.80	4.5	3.4																				
	3	0.80	1.20	LMC				1.00	5.3	3.2	4	0.80	1.00				< 0.02													
	4	1.20	2.50	LMC				1.25	5.8	3.5																				
								1.50	6.2	4.9	5	1.30	1.50				< 0.02													
								1.75	6.6	5.2																				
								2.00	6.6	5.1																				
								2.25	6.8	6.6																				
								2.50	6.9	6.2																				
	5	2.50	3.60	LMC				2.75	7.0	5.4																				
								3.00	6.7	7.0	8	2.80	3.00				< 0.02													
								3.25	7.0	7.0																				
								3.50	7.2	6.8																				
111	1	0.00	0.30	KSLC				0.10	5.7	4.3	1	0.00	0.10					0.014	94	104			10	5.3	3.8	0.01	0.006		
								0.30	5.4	2.9																				
	2	0.30	0.60	CLFS				0.60	5.0	2.6																				
	3	0.60	1.30	KSLC				0.80	4.7	2.7																				
								1.00	4.9	3.1	4	0.80	1.00				< 0.02													
								1.25	5.4	3.8																				
	4	1.30	1.70	KSCL				1.50	5.7	4.8																				
	5	1.70	2.90	LMC				1.75	6.1	7.0																				
								2.00	6.5	6.7																				
								2.25	6.7	6.4																				
								2.50	6.9	7.1																				
	6	2.90	3.80	FSLC				3.00	7.0	7.2																				
								3.50	6.9	7.0																				
	7	3.80	4.50	FSLC				4.00	7.1	7.0	10	3.80	4.00				< 0.02													
								4.50	7.2	7.2																				
	8	4.50	5.60	LMC				5.00	7.2	7.7																				
								5.50	7.2	7.6																				
112	1	0.00	0.30	FSLC				0.10	4.9	2.7	1	0.00	0.10				0.027													
								0.30	5.0	2.6	2	0.20	0.30				0.031													
	2	0.30	0.45	FSLC																										
	3	0.45	1.30	FSLC				0.60	4.1	1.6	3	0.50	0.60	S0	Pc		0.196													
								0.80	4.8	2.2																				
								1.00	5.5	1.8	4	0.80	1.00		Pc		1.851	1.372	885	985			100	4.0	2.1	0.26	0.018		
								1.25	6.8	2.5																				
	4	1.30	2.60	LMC				1.50	7.0	2.3	5	1.30	1.50		Pc		1.239													
								1.75	7.2	6.8																				
								2.00	7.0	7.1	6	1.80	2.00				< 0.02													
								2.25	7.0	7.0																				
								2.50	6.9	7.2	7	2.30	2.50				< 0.02													
	5	2.60	3.40	LMC				2.75	6.9	7.2																				
								3.00	7.0	7.0	8	2.80	3.00				< 0.02													
								3.25	7.0	7.0																				
	6	3.40	3.60	KSLC				3.50	7.0	7.1	9	3.40	3.60				< 0.02	0.000	23	24			1	6.4	4.8	0.01	0.001		
114	1	0.00	0.30	CLFS				0.10	4.4	2.5	1	0.00	0.10				0.027													
								0.30	4.4	2.8																				
	2	0.30	0.70	SCL				0.60	4.7	3.3	3	0.50	0.60					0.016	0	3			20	4.6	4.4	0.01	0.006		
	3	0.70	1.60	S				0.80	4.5	3.0																				
								1.00	4.7	3.4	4	0.80	1.00					0.000	0	4			10	4.7	5.5	0.01	0.000		
								1.25	4.5	2.7																				
								1.50	5.3	2.3	5	1.30	1.50				< 0.02	0.010	42	46			4	5.6	4.1	0.01	0.000		
	4	1.60	2.50	LKS				1.75	5.5	1.5																				
								2.00	5.8	1.8	6	1.80	2.00	S2	Ps		0.289													
								2.25	6.1	1.9																				
								2.50	6.3	1.6	7	2.30	2.50		Ps		0.405													
	5	2.50	4.80	LMC				2.75	7.0	3.5																				
								3.00	7.2	7.0	8	2.80	3.00				< 0.02													
								3.25	7.5	7.5																				
								3.50	7.2	7.7	9	3.30	3.50					0.041	0	10			10	6.1	6.1	0.01	0.033		
								3.75	7.3	7.7																				
								4.00	7.3	7.2																				
								4.25	5.8	7.2																				
											11	4.30	4.50				< 0.02	0.004	17	21			4	6.0	5.0	0.01	0.007		
115	1	0.00	0.30	LMC				0.10	6.3	3.0	1	0.00	0.10				0.027													
								0.30	6.0	2.8																				
	2	0.30	0.70	LMC				0.60	5.2	3.5	3	0.50	0.60					0.028	70	90			20	4.7	4.7	0.03	0.016		
	3	0.70	1.10	KSLC				0.80	5.4	3.0																				
								1.00	5.7	2.8	4	0.80	1.00				< 0.02													
	4	1.10	1.70	LC				1.25	5.8	2.9																				
								1.50	6.0	1.7	5	1.30	1.50	S2	Pc		0.858													
	5	1.70	3.20	LMC				1.75	6.5	6.6																				
								2.00	6.6	2.1	6	1.80	2.00		Pc		0.316	0.259	71	76			5	5.9	3.6	0.05	0.100		
								2.25	6.7	6.3																				
								2.50	6.8	2.9	7	2.30	2.50		Pc		0.259	0.216	83	87			4	6.0	3.5	0.04	0.024		
								2.75	7.0	6.8																				
								3.00	7.1	6.8	8	2.80	3.00					0.003	0	0			10	6.2	7.3	0.01	0.023		0.05
	6	3.20	3.30	LMC				3.25	6.8	7.0																				

Field Morphology Summary											Lab Sample				Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
									Field pH										Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S		pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)			%S		%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf					s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
116	1	0.00	0.40	LMC				0.10	4.8	2.0	1	0.00	0.10						< 0.02													
								0.30	4.6	2.3																						
	2	0.40	0.90	LMC				0.60	4.2	2.4	3	0.50	0.60							0.017	35	64			29	4.2	4.6	0.02	0.006		
								0.80	4.1	2.3																						
	3	0.90	1.30	LC				1.00	3.8	2.3	4	0.90	1.10						< 0.02	0.015	55	92			37	4.3	3.7	0.07	0.000		
								1.25	3.9	2.6																						
	4	1.30	1.50	MC				1.50	3.9	2.6	5	1.30	1.50						< 0.02	0.005	43	65			22	4.6	3.9	0.03	0.003		
	5	1.50	2.00	MC				1.75	3.9	2.6																						
								2.00	4.4	2.7	6	1.80	2.00						< 0.02	0.000	22	42			20	4.5	4.2	0.03	0.000		
	6	2.00	3.30	MC				2.25	4.6	2.8																						
								2.50	4.8	4.6																						
								2.75	5.1	5.8																						
								3.00	5.4	5.9																						
117	1	0.00	0.20	FSCL				0.10	5.1	2.4																						
	2	0.20	0.30	FSLC				0.30	5.7	3.0																						
	3	0.30	0.60	SLMC				0.60	5.2	3.6																						
	4	0.60	1.10	SLMC				0.80	5.4	3.6																						
								1.00	5.3	3.9																						
	5	1.10	3.30	LMC				1.25	5.6	4.2																						
								1.50	5.8	5.0																						
								1.75	5.9	4.7																						
								2.00	6.2	6.3																						
								2.25	6.2	6.3																						
								2.50	6.6	6.7																						
								2.75	6.7	7.2																						
								3.00	7.0	7.0																						
118	1	0.00	0.20	FSLC				0.10	4.7	2.1																						
	2	0.20	0.70	FSLC				0.30	4.6	3.3																						
								0.60	4.7	3.2																						
	3	0.70	1.00	SLMC				0.80	4.7	3.0																						
								1.00	4.8	3.0																						
	4	1.00	1.40	KSCL				1.25	4.7	3.1																						
	5	1.40	2.00	MC				1.50	4.7	2.9																						
								1.75	4.8	2.8																						
								2.00	4.6	3.0																						
119	1	0.00	0.20	FSLC				0.10	5.1	3.2																						
	2	0.20	0.70	LMC				0.30	4.2	2.8	2	0.20	0.30							0.010	0	25	2		40	4.1	4.0	0.04	0.015		
								0.60	4.2	3.0	3	0.50	0.60						< 0.02													
	3	0.70	1.10	SLC				0.80	5.1	3.3																						
								1.00	6.2	2.2	4	0.80	1.00						0.043													
	4	1.10	2.60	LC				1.25	6.9	1.2																						
								1.50	6.8	1.2	5	1.30	1.50	S2	Pc				1.462													
								1.75	6.8	1.2																						
								2.00	6.6	1.1	6	1.80	2.00		Pc				1.299													
								2.25	6.6	1.2																						
								2.50	6.6	1.4																						
	5	2.60	3.80	CLKS				2.75	6.5	1.3																						
								3.00	6.5	1.3	8	2.80	3.00		Pl				0.518													
								3.25	6.7	1.5																						
								3.50	6.7	1.5	9	3.30	3.50		Pl				0.999													
	6	3.80	4.40	FSLMC				4.00	6.3	4.0																						
								4.25	6.4	6.0	11	4.20	4.40						0.039													
								4.40	6.5	6.2																						
120	1	0.00	0.20	FSLC				0.10	4.9	2.6	1	0.00	0.10						< 0.02													
	2	0.20	0.40	KSLMC				0.30	5.7	3.6																						
	3	0.40	0.60	KSLMC				0.60	5.8	3.8	3	0.50	0.60						< 0.02													
	4	0.60	0.80	LMC				0.80	5.9	3.3																						
	5	0.80	1.00	LMC				1.00	6.4	3.1	4	0.80	1.00						< 0.02													
	6	1.00	1.30	KSLC				1.25	6.4	4.0																						
	7	1.30	2.30	LC				1.50	6.2	1.5	5	1.30	1.50	S2	Pc				0.328	0.590	385	406			21	5.1	2.6	0.06	0.017		
								1.75	6.0	1.3																						
								2.00	6.0	1.3	6	1.80	2.00		Pc				1.355													
								2.25	6.0	1.2																						
	8	2.30	2.80	LKS				2.50	6.0	1.4	7	2.30	2.50		Ps				0.737													
								2.75	6.2	1.6																						
	9	2.80	3.60	MC				3.00	6.9	2.0	8	2.80	3.00		Pc				1.734													
								3.25	7.2	6.3																						
121	1	0.00	0.20	FSCL				0.10	4.4	4.8																						
	2	0.20	0.50	ZCL				0.30	4.3	6.5																						
	3	0.50	0.80	FSLC				0.60	4.3	4.3	3	0.50	0.60							0.013	0	45			62	4.1	4.4	0.01	0.000		
								0.80	4.3	3.2																						
	4	0.80	1.30	FSLC				1.00	4.6	2.3	4	0.80	1.00						< 0.02	0.011	31	83			52	4.0	3.7	0.02	0.000		
								1.25	5.0	1.5																						
	5	1.30	1.70	SLC				1.50	5.8	1.8	5	1.30	1.50	S2	Pc				0.237													
	6	1.70	2.80	KS				1.75	6.1	1.8																						
								2.00	5.7	1.9	6	1.80	2.00		Ps				0.269													
								2.25	5.9	2.7																						
								2.50	5.9	1.1	7	2.30	2.50		Ps				0.399													
								2.75	6.1	1.2																						
	7	2.80	2.90	FSLC							8	2.80	2.90		Pc				1.34													
	8	2.90	3.60	KS				3.00	5.9	2.5																						
								3.25	6.2	2.6																						
								3.50	6.3	2.8	9	3.30	3.50						< 0.02													
	9	3.60	4.40	LC				3.75	6.3	2.8																						
								4.00	6.3	2.8	10	3.80	4.00						< 0.02													
								4.25	6.3	2.4																						
122	1	0.00	0.20	CLFS				0.10	5.3	5.0																						
	2	0.20	0.80	SLC				0.30	5.2	4.9																						
								0.60	5.5	3.5																						
								0.80	6.1	3.8																						
	3	0.80	1.00	SCL				1.00	6.3	4.8	4	0.80	1.00						< 0.02													
	4	1.00	1.50	S				1.25	6.2	3.8																						
								1.50	6.1	2.6	5	1.30	1.50						0.023													
	5	1.50	2.70	KS				1.75	6.0	2.7																						
								2.00	6.0	1.3	6	1.80	2.00						0.023													
								2.25	6.0	1.2																						
								2.50	6.0	2.0	7	2.30	2.50						< 0.02													
	6	2.70	3.50	MC				2.75	6.9	3.6																						
								3.00	6.9	3.4	8	2.80	3.00						< 0.02													
											9	3.30	3.50						< 0.02													
123	1	0.00	0.40	LC				0.10	4.7	3.0																						
								0.30	4.9	2.6																						
	2	0.40	1.00	CLFS				0.60	4.5	2.8	3	0.50	0.60						< 0.02													
								0.80	5.1	2.6																						
								1.00	5.0	2.3																						
	3	1.00	1.50	FSLC				1.25	5.2	2.8																						
								1.50	4.6	2.4																						
	4	1.50	1.80	S				1.75	5.2	3.0																						
	5	1.80	3.20	KS				2.00	6.0	3.0	6	1.80	2.00						< 0.02													
								2.25	6.0	2.3																						
								2.50	6.2	4.2	7	2.30	2.50						< 0.02													
								2.75	6.2	2.4																						
								3.00	6.4	4.1																						
	6	3.20	4.80	LS				3.25	6.3	2.4																						
								3.50	6.3	2.2	9	3.30	3.50	S4	Ps				0.178													
								3.75	6.3	1.9																						
								4.00	6.4	1.8	10	3.80	4.00		Ps				0.307													
								4.25	6.1	1.8																						
								4.50	6.2	1.3																						
								4.75	6.1	2.1																						
	7	4.80	5.00	KS				5.00	6.1	1.7	12	4.80	5.00						< 0.02													
	8	5.00	6.00	MC				5.50	6.3	2.8																						
								6.00	6.2	3.4	14	5.80	6.00						0.042													

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)	23Af	23Bf		(m)				s-ANC_E s-Ca+s-Mg	%S 22B	23Ee	mol H+/t 23H	23G	mol H+/t a-23Re	a-20J	23F	23A	23B	23Ce	%S s-23Xh+s-23Um	%S s-19A2	%S s-23Q
124	1	0.00	0.30	KSLC				0.10	5.6	2.2	1	0.00	0.10				< 0.02												
								0.30	5.7	2.6																			
	2	0.30	0.50	LMC																									
	3	0.50	1.10	LMC				0.60	4.7	2.8	3	0.50	0.60					0.023	0	24			39	4.1	4.1	0.02	0.018		
								0.80	4.6	2.7																			
								1.00	4.6	2.7																			
	4	1.10	1.40	LC				1.25	5.1	2.2	5	1.20	1.40				< 0.02												
	5	1.40	2.40	LC				1.50	4.8	1.3																			
								1.75	4.9	1.3																			
								2.00	4.9	1.0	6	1.80	2.00	S2	Pc		1.15	1.443	924	1108			184	3.4	1.7	0.24	0.028		
								2.25	5.0	1.2																			
	6	2.40	3.40	LC				2.50	5.8	1.3	7	2.40	2.60		Pc		0.663	0.770	510	564			54	4.4	2.3	0.11	0.002		
								2.75	6.0	1.6																			
								3.00	6.2	1.3	8	2.80	3.00		Pc		1.94												
								3.25	6.4	1.9																			
	7	3.40	4.30	LC				3.50	6.6	2.4	9	3.40	3.60				0.054												
								3.75	6.9	6.3																			
								4.00	7.1	6.3																			
								4.25	7.3	5.3																			
	8	4.30	4.50	KSCL				4.50	7.4	4.4	11	4.30	4.50				< 0.02	0.013	16	19			3	6.1	5.0	0.01	0.005		
	9	4.50	4.90	MC				4.75	7.7	5.7																			
	10	4.90	6.00	MC				5.00	7.8	7.5																			
								5.50	7.8	7.0																			
								6.00	8.0	6.3																			
125	1	0.00	0.30	CL				0.10	4.7	3.4	1	0.00	0.10				< 0.02												
								0.30	4.6	2.6																			
	2	0.30	0.50	CLKS																									
	3	0.50	1.10	LMC				0.60	4.5	2.8	3	0.50	0.60					0.011	41	72			31	4.4	4.3	0.01	0.000		
								0.80	4.7	2.7																			
								1.00	4.8	3.1																			
	4	1.10	1.50	KS				1.25	4.7	3.5																			
								1.50	5.0	3.4	5	1.30	1.50				< 0.02												
	5	1.50	1.70	LMC																									
	6	1.70	3.30	CL				1.75	5.2	1.4																			
								2.00	5.5	1.2	6	1.80	2.00	S2	Pl		1.219												
								2.25	6.0	1.1																			
								2.50	6.3	1.1	7	2.30	2.50		Pl		1.743												
								2.75	6.6	1.2																			
								3.00	6.7	1.2	8	2.80	3.00		Pl		1.444												
								3.25	6.9	1.2																			
	7	3.30	5.90	LC				3.50	6.9	1.3																			
								3.75	7.0	1.3																			
								4.00	6.9	1.3	10	3.80	4.00		Pc		1.066												
								4.25	7.1	2.0																			
								4.50	7.1	1.3																			
								4.75	7.1	1.3																			
								5.00	7.1	1.3	12	4.80	5.00		Pc		1.099												
								5.50	7.1	1.3																			
											14	5.80	5.90		Pc		0.904												
	8	5.90	7.50	LC				6.00	7.3	1.3																			
								6.50	7.0	1.3																			
								7.00	7.1	1.2	16	6.80	7.00		Pc		0.766												
								7.50	7.1	1.1																			
	9	7.50	8.50	LKS				8.00	7.1	1.2	18	7.90	8.10		Ps		0.756	0.650	435	470			35	4.5	2.2	0.12	0.012		
								8.50	7.0	1.1	19	8.20	8.50		Ps		0.323	0.328	215	228			13	5.0	2.6	0.06	0.004		
126	1	0.00	0.40	SCL				0.10	5.1	2.8	1	0.00	0.10				< 0.02												
								0.30	5.3	2.4																			
	2	0.40	0.80	CLFS				0.60	5.7	3.5																			
								0.80	5.8	3.2																			
	3	0.80	1.70	LMC				1.00	5.8	3.0	4	0.80	1.00				< 0.02												
								1.25	5.3	2.7																			
								1.50	5.0	2.5	5	1.30	1.50				< 0.02												
	4	1.70	2.40	KSLMC				1.75	4.8	2.7																			
								2.00	4.7	2.4	6	1.80	2.00				< 0.02												
								2.25	4.8	2.6																			
	5	2.40	2.70	KS				2.50	5.0	2.8	7	2.40	2.50				< 0.02												
	6	2.70	3.10	KSCL				2.75	5.1	2.8																			
								3.00	5.7	2.8																			
	7	3.10	3.80	KSLC				3.25	6.5	3.2																			
								3.50	6.6	3.4																			
								3.75	6.6	5.8																			
	8	3.80	4.40	KSMC				4.00	6.8	4.5	10	3.80	4.00				< 0.02												
								4.25	6.8	4.7	11	4.20	4.40				< 0.02												
127	1	0.00	0.50	CLS				0.10	5.0	2.3	1	0.00	0.10				< 0.02												
								0.30	5.5	2.9																			
	2	0.50	1.00	LS				0.60	5.1	1.6	3	0.50	0.60				< 0.02												
								0.80	5.0	2.6																			
								1.00	4.8	3.1	4	0.80	1.00				< 0.02	0.000	0	0			10	4.6	4.6	0.01	0.000		
	3	1.00	1.50	CL				1.25	5.3	1.3																			
								1.50	5.5	1.2	5	1.30	1.50	S1	Pl		0.219												
	4	1.50	2.00	KS				1.75	5.8	1.3																			
								2.00	6.0	1.8	6	1.80	2.00		Ps		0.074												
	5	2.00	4.70	ZLC				2.25	6.2	1.2																			
								2.50	6.2	1.6	7	2.30	2.50		Pc		2.096												
								2.75	6.9	1.7																			
								3.00	7.5	1.8	8	2.80	3.00		Pc	0.508 0.814	1.697	1.557	0	0			0	8.2	7.7	0.07	1.114		0.02
								3.25	7.7	5.4																			
								3.50	7.9	6.7	9	3.30	3.50		Pc	-0.011 0.169	1.463	1.268	0	0			0	8.3	8.0	0.06	1.649		0.65
								3.75	8.0	7.2																			
								4.00	8.2	7.3	10	3.80	4.00		Pc	-0.154 0.018	1.403	1.312	0	0			0	8.4	7.6	0.08	1.941		0.89
								4.25	8.3	7.4																			
								4.50	8.3	7.4	11	4.30	4.50				< 0.02												
	6	4.70	6.00	KSLC				4.75	8.3	7.5																			
								5.00	7.8	7.5	12	4.80	5.00		Pc		1.03												
								5.50	7.9	7.2																			
								6.00	8.2	6.8																			
128	1	0.00	0.25	CL				0.10	5.9	3.1	1	0.00	0.20				0.02												
	2	0.25	0.45	MC				0.30	5.9	3.4																			
											2	0.30	0.40				0.022												
	3	0.45	0.85	LMC				0.60	7.8	2.4	3	0.50	0.60				0.051												
								0.80	7.2	3.8																			
	4	0.85	2.00	LMC				1.00	7.1	5.5	4	0.90	1.10				0.054												
								1.25	5.5	2.5																			
								1.50	5.6	1.0	5	1.30	1.50	S1	Pc		2.76												
								1.75	5.4	1.1																			
								2.00	6.0	1.1																			
129	1	0.00	0.35	L				0.10	5.9	3.7	1	0.00	0.30	S0	Pl		0.207												
								0.30	5.8	4.3																			
	2	0.35	0.70	LC				0.60	4.6	3.7	2	0.40	0.60				0.084												
	3	0.70	1.50	IP				0.80	4.7	3.8																			
								1.00	4.7	1.3	3	0.80	1.00		Pl		1.057												
								1.25	4.8	1.3	4	1.10	1.50		Pl		1.655												
								1.50	4.9	1.2																			
	4	1.50	1.60	KS																									
130	1	0.00	0.15	KSL				0.10	5.2	2.4																			
	2	0.15	0.60	KSCL				0.30	5.2	2.2	2	0.20	0.30				< 0.02												
								0.60	4.7	3.6																			
	3	0.60	1.30	CLKS				0.80	4.7	3.6																			
								1.00	4.7	4.1	4	0.80	1.00				< 0.02												
								1.25	4.6	3.6																			
	4	1.30	1.60	MC				1.50	4.6	1.5	5	1.30	1.60				0.058												
	5	1.60	2.70	CL				1.75	4.7	1.4																			
								2.00	5.2	1.2	6	1.80	2.00	S2	Pl		1.299												
								2.25	5.8	1.4																			
								2.50	6.2	1.6																			
	6	2.70	3.50	CLKS				2.75	6.4	2.1																			
								3.00	6.5	2.0	8	2.80	3.00		Pl		0.532												
								3.25	6.7	1.9																			
								3.50	6.5	2.2																			
	7	3.50	3.60	KSL				3.60	6.8	2.1																			

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
								Field pH									Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
131	1	0.00	0.40	KSL				0.10	6.3	4.2																				
								0.30	6.3	4.8																				
	2	0.40	1.20	S				0.60	6.6	5.1	2	0.50	0.60				< 0.02													
								0.80	6.5	5.5																				
								1.00	6.5	5.3																				
	3	1.20	2.20	S				1.25	6.5	4.5																				
								1.50	6.1	5.2	4	1.30	1.50				< 0.02													
								1.75	6.3	5.2																				
								2.00	5.6	5.0																				
	4	2.20	3.20	KS				2.25	5.4	5.0	6	2.20	2.40				< 0.02													
								2.50	5.6	4.2																				
								3.00	5.5	5.0																				
											7	3.00	3.20				< 0.02													
	5	3.20	4.60	KSHC				3.25	5.7	2.0																				
								3.50	6.2	2.7	8	3.40	3.60	S4	Pc		0.327													
								3.75	6.5	3.4																				
								4.00	6.6	4.5																				
								4.25	6.5	4.4																				
								4.50	6.6	4.5																				
132	1	0.00	0.15	LC				0.10	6.2	4.6	1	0.00	0.10				< 0.02													
	2	0.15	0.35	LC				0.30	5.4	4.5																				
	3	0.35	0.60	HC				0.60	5.4	4.3	3	0.50	0.60				< 0.02													
	4	0.60	1.15	HC				0.80	5.8	4.6																				
								1.00	6.2	2.4																				
	5	1.15	3.25	HC				1.25	6.4	6.5																				
								1.50	6.5	5.8																				
								1.75	6.6	6.5																				
								2.00	6.8	6.1																				
133	1	0.00	0.15	LC				0.10	6.4	7.5	1	0.00	0.10				< 0.02													
	2	0.15	0.35	MC				0.30	5.1	3.1	2	0.20	0.30				< 0.02													
	3	0.35	0.70	MC				0.60	6.4	1.6	3	0.50	0.60	S0	Pc		1.23													
	4	0.70	1.00	HC				0.80	6.7	6.4																				
								1.00	7.0	7.2																				
134	1	0.00	0.10	LC				0.10	6.6	3.2	1	0.00	0.10	S0	Pc		0.241													
	2	0.10	0.60	CL				0.30	6.7	1.5	2	0.20	0.30		Pl		1.773													
								0.60	6.7	1.5	3	0.50	0.60		Pl		6.714													
	3	0.60	1.00	MC				0.80	6.8	1.3																				
								1.00	6.8	1.9	4	0.80	1.00		Pc		3.027													
	4	1.00	2.00	HC				1.25	7.0	1.6																				
								1.50	7.5	1.9	5	1.30	1.50		Pc		2.324													
								1.75	7.4	1.7																				
								2.00	7.3	1.7																				
135	1	0.00	0.30	CLS				0.10	4.9	2.8																				
								0.30	4.6	3.1																				
	2	0.30	0.50	FSCL				0.40	4.6	3.5	2	0.30	0.50				< 0.02													
	3	0.50	0.90	CLFS				0.60	4.7	4.3																				
								0.80	4.7	3.9																				
	4	0.90	2.85	CLS				1.00	4.3	3.1																				
								1.25	4.7	4.0																				
								1.50	5.9	3.1	4	1.30	1.50				< 0.02													
								1.75	4.8	4.0																				
								2.00	4.9	4.0																				
								2.25	5.5	4.5																				
								2.50	5.2	3.3	5	2.00	2.50				< 0.02													
								2.75	5.7	4.9																				
	5	2.85	3.80	KSMC				3.00	6.3	4.8																				
								3.25	6.5	4.4																				
								3.50	6.6	5.1	6	3.30	3.50				< 0.02													
								3.75	6.5	5.0																				
	6	3.80	5.50	KSLC				4.00	6.5	4.6																				
								4.25	6.7	5.0																				
								4.50	6.6	5.3																				
								4.75	6.5	5.1																				
								5.00	6.4	5.4																				
								5.25	6.3	5.3																				
								5.50	6.7	7.1																				
	7	5.50	6.00	HC				5.75	6.8	7.3																				
								6.00	6.5	7.1																				
136	1	0.00	0.10	CLFS				0.10	5.7	3.2	1	0.00	0.10				< 0.02													
	2	0.10	0.70	CLFS				0.30	5.6	3.0	2	0.20	0.30				< 0.02													
								0.60	5.7	3.4	3	0.50	0.60				0.021													
	3	0.70	2.00	CLFS				0.80	5.6	3.9																				
								1.00	5.9	1.5	4	0.80	1.00	S1	Pl		0.482													
								1.25	5.8	1.3																				
								1.50	5.7	1.3	5	1.30	1.50		Pl		1.733													
								1.75	6.1	1.2																				
								2.00	5.8	1.3																				
	4	2.00	3.20	FSLMC				2.25	6.1	1.2																				
								2.50	6.2	1.3	7	2.30	2.50		Pc		1.433													
								2.75	6.1	1.5																				
								3.00	6.8	1.8																				
	5	3.20	3.80	SLMC				3.25	6.4	1.5																				
								3.50	5.8	1.3																				
								3.75	6.1	1.3																				
137	1	0.00	0.10	L				0.10	5.7	4.6																				
	2	0.10	0.40	LC				0.30	5.5	4.8	2	0.20	0.30				< 0.02													
	3	0.40	0.75	SLC				0.60	5.5	5.0																				
	4	0.75	1.00	SLC				0.80	6.2	4.9																				
								1.00	6.5	3.2	4	0.80	1.00	S1	Pc		0.26													
	5	1.00	2.20	SLC				1.25	6.1	1.0																				
								1.50	6.3	1.0	5	1.30	1.50		Pc		2.178													
								1.75	6.1	1.0																				
								2.00	6.3	1.3	6	1.80	2.20		Pc		1.568													
	6	2.20	3.10	CS				2.25	6.1	1.3																				
								2.50	6.1	1.0	7	2.30	2.50		Ps		0.761													
								2.75	6.0	1.0																				
								3.00	5.9	1.7																				
	7	3.10	3.85	LS				3.25	6.1	1.0																				
								3.50	6.1	1.2	9	3.30	3.50		Ps		0.139													
								3.75	6.0	1.5																				
	8	3.85	4.80	HC				4.00	6.4	6.6																				
								4.25	6.2	8.1																				
								4.50	5.9	7.8																				
								4.75	6.1	8.1																				
138	1	0.00	0.40	LC				0.10	5.5	6.5																				
								0.30	5.3	4.1																				
	2	0.40	0.65	CLS				0.60	5.4	4.0	2	0.50	0.60				< 0.02													
	3	0.65	1.20	CLS				0.80	5.4	3.8																				
								1.00	5.5	4.5	3	0.80	1.00				< 0.02													
	4	1.20	1.60	SLC				1.25	6.0	4.6	4	1.20	1.40				0.055													
								1.50	6.2	1.9																				
	5	1.60	2.00	SLC				1.75	6.1	1.4	5	1.70	1.90	S2	Pc		0.323													
								2.00	6.1	2.3																				
	6	2.00	3.60	LS				2.25	6.0	1.4																				
								2.50	5.9	3.0																				
								2.75	6.2	2.5																				
								3.00	6.0	2.2	6	2.80	3.00				< 0.02													
								3.25	6.3	3.5																				
								3.50	6.0	3.1																				
	7	3.60	4.30	LS				3.75	6.1	1.6																				
								4.00	6.4	2.7	8	3.80	4.00				< 0.02													
								4.25	6.3	2.8																				
	8	4.30	5.15	LS				4.50	6.3	1.6																				
								4.75	6.4	3.4																				
								5.00	6.2	3.1																				
	9	5.15	5.50	LC				5.25	6.4	0.9	10	5.20	5.40		Pc		1.085													
								5.50	6.8	7.1																				
	10	5.50	6.00	HC				5.75	6.1	6.7																				
								6.00	6.6	7.1																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
(m)								(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
139	1	0.00	0.45	SLC				0.10	5.5	4.3																				
								0.30	5.7	4.7	1	0.20	0.30				< 0.02													
	2	0.45	0.70	CLS				0.60	4.8	4.4	2	0.50	0.60				< 0.02													
	3	0.70	0.95	SLC				0.80	5.1	3.8																				
											3	0.80	0.90	S1	Pc		0.332													
	4	0.95	1.20	SLC				1.00	5.1	1.1																				
											4	1.00	1.20		Pc		1.907													
	5	1.20	1.80	LS				1.25	5.2	1.2																				
								1.50	5.2	1.1	5	1.30	1.50		Ps		1.109													
								1.75	5.4	1.0																				
	6	1.80	3.00	S				2.00	5.3	1.2																				
											6	2.00	2.20		Ps		0.423													
								2.25	5.2	1.4																				
								2.50	5.4	1.1																				
								2.75	5.4	1.3																				
								3.00	5.4	1.2	7	2.80	3.00		Ps		0.39													
	7	3.00	3.60	HC				3.25	6.5	4.1																				
								3.50	6.8	5.2																				
140	1	0.00	0.08	CL							1	0.00	0.05				0.028													
	2	0.08	0.20	MC				0.10	5.2	4.1																				
	3	0.20	0.65	MC				0.30	5.2	6.9																				
								0.60	5.7	7.5	3	0.50	0.60				< 0.02													
	4	0.65	1.30	HC				0.80	5.8	7.5																				
								1.00	5.9	8.6																				
								1.25	5.9	8.5																				
	5	1.30	2.50	HC				1.50	6.1	6.5																				
								1.75	6.4	5.5																				
								2.00	6.9	7.4	6	1.80	2.00				< 0.02													
								2.25	6.8	8.3																				
								2.50	7.2	6.8																				
	6	2.50	3.30	HC				2.75	7.1	5.6																				
								3.00	7.3	6.1																				
								3.25	6.9	5.5																				
141	1	0.00	0.60	S				0.10	5.6	3.5	1	0.00	0.30				< 0.02													
								0.30	5.7	3.3																				
								0.60	5.6	2.2																				
	2	0.60	0.85	CLS				0.80	5.5	3.1	2	0.70	0.80				< 0.02													
	3	0.85	1.20	CS				1.00	6.1	1.7																				
											3	1.00	1.20				< 0.02													
	4	1.20	1.65	SCL				1.25	6.2	3.3																				
								1.40	6.2	2.4	4	1.30	1.40				< 0.02													
								1.50	6.0	1.8																				
	5	1.65	2.00	LS				1.75	5.7	2.5	5	1.70	1.90				< 0.02													
								2.00	5.4	3.0																				
	6	2.00	2.30	GR				2.25	5.6	3.7																				
	7	2.30	3.00	FSLMC				2.50	5.6	4.0																				
								2.75	5.6	3.4																				
								3.00	5.5	4.2																				
	8	3.00	3.30	FSLMC				3.25	5.7	4.9																				
142	1	0.00	0.30	LC				0.10	5.5	3.4																				
								0.30	6.0	5.6																				
	2	0.30	0.40	SCL							2	0.30	0.40				< 0.02													
	3	0.40	2.20	GR				0.60	5.4	3.9																				
								0.80	5.6	3.4																				
								1.00	5.1	2.3																				
								1.25	5.4	2.0																				
								1.50	5.2	3.3																				
								1.75	6.2	1.6	3	1.70	1.90				< 0.02													
								2.00	5.6	3.3																				
	4	2.20	3.25	HC				2.25	5.8	3.9																				
								2.50	5.9	3.9																				
								2.75	5.3	3.5																				
								3.00	5.7	4.3																				
								3.25	5.7	4.8																				
143	1	0.00	0.20	CLS				0.10	5.8	2.3	1	0.00	0.20				< 0.02													
	2	0.20	0.80	LS				0.30	6.5	2.4																				
								0.60	5.9	2.7	2	0.40	0.60				< 0.02													
								0.80	5.9	2.3																				
	3	0.80	1.20	SCL				1.00	6.1	3.5	3	0.90	1.10				< 0.02													
	4	1.20	1.50	LS				1.25	6.2	3.1																				
								1.50	6.1	2.7	4	1.30	1.50				< 0.02													
	5	1.50	1.90	LS							5	1.50	1.70	S2	Ps		0.062													
								1.75	5.9	1.2																				
	6	1.90	2.40	GR				2.00	5.8	1.7																				
								2.25	6.1	2.6																				
	7	2.40	3.30	HC				2.50	5.9	2.5																				
								2.75	6.0	4.4																				
								3.00	6.4	5.1																				
								3.25	6.3	5.1																				
144	1	0.00	0.75	KSCL				0.10	6.5	1.4	1	0.00	0.20	S0	Pl		0.611													
								0.30	6.8	0.9																				
								0.60	6.9	0.8	2	0.40	0.60		Pl		1.003													
	2	0.75	1.60	LC				0.80	7.2	0.9																				
								1.00	7.0	0.9	3	0.80	1.00		Pc		2.303													
								1.25	7.0	1.0																				
								1.50	7.0	1.5	4	1.30	1.50		Pc		2.581													
	3	1.60	2.05	MC				1.75	7.1	1.2	5	1.70	1.90		Pc		3.817													
								2.00	7.2	1.4																				
	4	2.05	2.65	MC				2.25	7.2	2.0																				
								2.50	7.4	3.8																				
								2.65	7.6	5.3																				
145	1	0.00	2.00	CL				0.10	5.6	0.9	1	0.00	0.20	S0	Pl		1.309													
								0.30	6.1	0.9																				
								0.60	6.4	1.0	2	0.50	0.60		Pl		2.433													
								0.80	6.5	1.0																				
								1.00	6.6	1.0																				
								1.25	6.6	0.8																				
								1.50	6.5	0.8	4	1.30	1.50		Pl		3.387													
								1.75	6.7	1.0																				
								2.00	6.8	1.3																				
	2	2.00	2.20	MC				2.10	6.8	1.0	6	2.00	2.20		Pc		4.537													
	3	2.20	2.50	MC				2.25	6.8	1.8																				
								2.50	6.8	1.7																				
	4	2.50	2.60	MC				2.60	6.9	3.9																				
146	1	0.00	0.10	CL				0.10	5.8	2.8	1	0.00	0.10				0.028													
	2	0.10	0.30	LC				0.30	6.5	1.1	2	0.20	0.30				0.057													
	3	0.30	1.00	MC				0.60	6.8	1.2	3	0.50	0.60	S0	Pc		1.997													
								0.80	6.8	1.3																				
								1.00	6.7	1.5	4	0.80	1.00		Pc		0.796													
	4	1.00	1.40	MHC				1.25	6.7	1.6																				
								1.40	6.8	1.7																				
147	1	0.00	0.15	LC				0.10	5.1	2.6																				
	2	0.15	0.40	LC				0.30	5.1	4.7	2	0.20	0.40				< 0.02													
	3	0.40	1.05	MHC				0.60	4.6	1.6	3	0.50	0.60				< 0.02													
								0.80	5.3	3.4																				
								1.00	5.7	4.2																				
	4	1.05	2.60	MHC				1.25	6.1	4.8																				
								1.50	6.2	5.2																				
								1.75	6.6	7.1																				
								2.00	6.8	5.5																				
								2.25	6.8	5.5																				
								2.50	6.6	5.8																				
	5	2.60	3.20	MHC				2.75	6.6	5.8																				
								3.00	7.1	5.6																				

Field Morphology Summary												Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results														
									Field pH									Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp. Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp. Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
148	1	0.00	0.18	LC				0.10	5.3	3.8																			
	2	0.18	0.50	MC				0.30	5.3	3.9																			
	3	0.50	0.75	MC				0.60	4.4	3.3																			
											3	0.60	0.70				0.054												
	4	0.75	1.05	MC				0.80	5.1	3.7																			
								1.00	5.5	3.2	4	0.80	1.00				< 0.02												
	5	1.05	1.50	SLC				1.25	5.0	2.9	5	1.20	1.40				< 0.02												
								1.50	4.7	4.2																			
	6	1.50	2.30	SLC				1.75	5.0	3.6	6	1.60	1.80				< 0.02												
								2.00	4.6	1.6																			
											7	2.00	2.20	S2	Pc		0.56												
								2.25	5.1	1.6																			
	7	2.30	3.30	KSLC				2.50	5.3	3.5																			
								2.75	5.8	3.7																			
								3.00	5.9	5.0																			
								3.25	6.1	5.4																			
	8	3.30	3.60	SMC				3.50	6.2	5.3																			
149	1	0.00	0.60	LC				0.10	4.9	3.0																			
								0.30	4.5	2.7	2	0.20	0.30				0.021												
								0.60	5.0	3.0	3	0.50	0.60				0.038												
	2	0.60	1.05	MHC				0.80	4.9	3.3																			
								1.00	5.0	2.8	4	0.80	1.00				0.067												
	3	1.05	1.50	MC				1.25	5.1	2.5	5	1.20	1.40				< 0.02												
								1.50	5.3	2.0																			
	4	1.50	2.20	SCL				1.75	5.4	2.2																			
								2.00	5.2	2.4	6	1.80	2.00				< 0.02												
	5	2.20	3.10	KSCL				2.25	5.2	2.8																			
								2.50	5.5	2.6																			
								2.75	5.1	3.1	7	2.70	2.90				0.047												
								3.00	5.0	2.2																			
150	1	0.00	0.10	LC				0.10	5.8	3.4	1	0.00	0.10				0.022												
	2	0.10	0.40	MC				0.30	5.8	3.6	2	0.20	0.30				< 0.02												
	3	0.40	0.60	SMC				0.60	6.1	4.0	3	0.50	0.60				< 0.02												
	4	0.60	0.80	MC							4	0.60	0.70				< 0.02												
								0.80	6.7	2.8																			
	5	0.80	1.10	LC				1.00	6.8	2.6	5	0.90	1.00	S1	Pc		0.359												
	6	1.10	1.40	LS				1.25	6.7	1.1	6	1.20	1.30		Ps		0.069												
	7	1.40	1.75	LS				1.50	6.5	1.5																			
											7	1.60	1.70		Ps		0.291												
								1.75	6.7	1.6																			
151	1	0.00	0.30	CL				0.10	5.8	3.8	1	0.00	0.10				< 0.02												
								0.30	6.0	2.2																			
	2	0.30	1.80	LC				0.60	5.5	4.0																			
											2	0.60	0.70				< 0.02												
								0.80	5.2	4.4																			
								1.00	7.3	8.0																			
								1.25	8.2	8.0																			
								1.50	8.3	5.9	3	1.40	1.50				< 0.02												
								1.75	7.3	5.3																			
	3	1.80	3.10	MC				2.00	7.3	2.5	4	1.80	2.00	S2	Pc		0.101												
								2.50	7.1	1.9																			
								2.75	6.9	1.6																			
								3.00	7.8	1.7	5	2.80	3.00		Pc		1.754												
	4	3.10	4.40	MC				3.25	7.2	1.5																			
								3.50	7.5	1.8	6	3.30	3.50		Pc		1.976												
								3.75	7.6	1.5																			
								4.00	7.6	1.6																			
								4.25	7.9	1.8																			
	5	4.40	6.00	LS				4.50	8.3	1.4																			
								4.75	7.8	1.7																			
								5.00	7.5	1.8																			
								5.25	8.2	1.3																			
								5.50	7.9	1.4																			
								5.75	7.7	1.5																			
152	1	0.00	0.20	SCL				0.10	6.0	4.4	1	0.00	0.10				< 0.02												
	2	0.20	1.00	L				0.30	5.7	1.1	2	0.20	0.30	S0	Pl		2.906												
								0.60	6.4	1.1	3	0.50	0.60		Pl		1.974												
								0.80	6.7	1.3																			
								1.00	6.6	1.2	4	0.80	1.00		Pl		1.795												
	3	1.00	1.60	CL				1.25	6.5	1.1																			
								1.50	6.6	1.5	5	1.30	1.50		Pl		1.625												
	4	1.60	2.00	KSL				1.75	6.5	1.4																			
								2.00	6.6	1.6																			
153	1	0.00	0.15	CLS				0.10	5.6	2.8																			
	2	0.15	0.50	SLC				0.30	5.0	2.4																			
											2	0.40	0.50				< 0.02												
	3	0.50	0.85	SLC				0.60	4.8	2.6																			
								0.80	4.5	2.9																			
	4	0.85	1.50	MC				1.00	4.7	2.6																			
								1.25	4.6	2.6	4	1.10	1.30				< 0.02												
								1.50	4.6	2.5																			
	5	1.50	2.00	CLS				1.75	4.7	3.0																			
								2.00	4.8	2.8																			
	6	2.00	2.60	MC				2.25	4.7	2.7	6	2.20	2.40				< 0.02												
								2.50	4.5	2.6																			
	7	2.60	3.05	KSLC				2.75	5.0	3.6																			
								3.00	5.2	2.7																			
	8	3.05	3.40	CKS				3.25	4.7	3.6																			
	9	3.40	4.10	MC				3.50	4.3	3.1																			
								3.75	4.7	3.6																			
								4.00	4.7	3.3																			
	10	4.10	4.90	HC				4.25	4.6	3.4																			
								4.50	4.8	4.6																			
								4.75	4.8	3.9																			
	11	4.90	5.40	HC				5.00	4.8	2.0																			
								5.25	5.0	4.4																			
155	1	0.00	1.30	LC				0.10	6.3	1.5	1	0.00	0.10	S0	Pc		0.446												
								0.30	6.4	1.2	2	0.20	0.30		Pc		2.688												
								0.60	6.5	1.3	3	0.50	0.60		Pc		1.383												
								0.80	6.5	1.2																			
								1.00	6.6	1.2																			
								1.25	6.5	1.1																			
	2	1.30	1.50	LKS				1.50	6.3	1.2																			
156	1	0.00	0.20	LC				0.10	6.1	4.1	1	0.00	0.20				0.035												
	2	0.20	0.50	MC				0.30	6.2	4.9																			
											2	0.30	0.40				< 0.02												
	3	0.50	0.90	MC				0.60	6.7	1.0																			
								0.80	6.9	1.0	3	0.60	0.80	S0	Pc		2.587												
	4	0.90	1.50	ZMC				1.00	6.8	1.0																			
											4	1.00	1.20		Pc		2.186												
								1.25	7.0	1.2																			
								1.50	6.6	1.0																			
157	1	0.00	0.50	S				0.15	5.6	4.6																			
								0.30	4.9	3.6	1	0.20	0.50				< 0.02												
	2	0.50	0.90	SCL				0.60	5.0	2.0																			
								0.80	5.6	1.5																			
								0.90	5.4	1.8	2	0.60	0.90	S0	Pl		0.076												
158	1	0.00	0.03	SCL				0.02	4.6	5.3	1	0.00	0.03				< 0.02												
	2	0.03	0.40	MC				0.10	5.4	3.6																			
								0.30	6.0	4.6	2	0.10	0.30				< 0.02												
	3	0.40	0.75	MC				0.60	6.5	4.8																			
	4	0.75	1.10	LC				0.80	6.2	4.7																			
								1.00	6.8	1.6	4	0.80	1.00				0.06												
	5	1.10	1.80	MC				1.25	6.6	1.3	5	1.20	1.40	S2	Pc		2.434												
								1.50	6.5	1.4																			
								1.75	6.6	1.3																			
	6	1.80	2.00	LS				2.00	6.4	1.4																			

Field Morphology Summary											Lab Sample				Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH											Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S		pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)					%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf							s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
159	1	0.00	0.10	LS				0.05	6.7	3.3	1	0.00	0.10						< 0.02													
	2	0.10	0.45	MC				0.30	6.8	4.3	2	0.20	0.40						0.027													
	3	0.45	0.70	MC				0.60	6.5	1.7	3	0.50	0.60						0.047													
	4	0.70	1.10	LMC				0.80	6.6	1.9																						
								1.00	7.0	1.2	4	0.80	1.00	S1	Pc				1.044													
	5	1.10	1.40	LS				1.25	6.8	1.5	5	1.20	1.40		Ps				1.068													
								1.40	6.7	1.3																						
160	1	0.00	0.10	CL				0.05	5.2	2.7	1	0.00	0.10						< 0.02													
	2	0.10	0.50	MC				0.30	5.6	4.0	2	0.20	0.40						< 0.02													
	3	0.50	0.70	LMC				0.60	6.1	1.3	3	0.50	0.60	S0	Pc				0.2													
	4	0.70	1.90	LC				0.80	6.2	1.1																						
								1.00	6.0	1.2	4	0.80	1.00		Pc				1.667													
								1.25	6.2	1.0																						
								1.50	6.1	1.0	5	1.30	1.50		Pc				1.218													
								1.75	6.0	1.1																						
	5	1.90	2.00	LKS				2.00	6.0	1.3																						
161	1	0.00	0.30	SCL				0.10	6.3	3.3																						
								0.30	5.9	3.8																						
	2	0.30	0.80	FSCL				0.60	5.2	3.6	2	0.50	0.60						< 0.02													
								0.80	5.2	3.8																						
	3	0.80	1.20	SCL				1.00	5.0	3.5																						
	4	1.20	1.50	MC				1.25	4.9	3.1																						
											4	1.30	1.40						< 0.02													
								1.50	5.1	1.8																						
	5	1.50	2.90	MHC				1.75	5.1	3.7																						
								2.00	4.8	3.2																						
								2.25	4.5	3.3																						
								2.50	4.5	3.0																						
								2.75	5.0	3.1																						
	6	2.90	3.45	SMC				3.00	5.3	5.6																						
								3.25	5.9	5.8																						
	7	3.45	5.40	SMC				3.50	6.5	5.0																						
								3.75	6.2	3.1																						
								4.00	6.1	5.2																						
								4.25	6.2	5.0																						
								4.50	6.2	4.4																						
								4.75	6.1	4.4																						
								5.00	5.9	1.7	8	4.80	5.00						< 0.02													
								5.25	6.4	3.1																						
	8	5.40	6.25	SMC				5.50	6.3	2.4																						
								5.75	6.4	4.8																						
								6.00	6.5	4.7																						
								6.25	6.6	5.1																						
162	1	0.00	0.20	LC				0.10	4.6	2.9																						
	2	0.20	0.50	LMC				0.30	4.6	3.1																						
											2	0.30	0.40						< 0.02													
	3	0.50	0.80	FSLMC				0.60	4.7	3.5																						
								0.80	4.8	3.7																						
	4	0.80	1.15	MC				1.00	4.7	3.8	4	0.80	1.00						< 0.02													
	5	1.15	1.40	MC	J			1.25	3.6	1.9	5	1.20	1.40	S2	Pc				0.403													
	6	1.40	1.90	MC				1.50	4.1	1.9																						
								1.75	5.0	1.3	6	1.60	1.80		Pc				2.858													
	7	1.90	2.20	LS				2.00	5.6	1.1																						
											7	2.00	2.20		Ps				0.033													
	8	2.20	3.70	LKS				2.25	6.0	1.0																						
								2.50	6.2	2.0																						
								2.75	6.1	1.9	8	2.60	2.80		Ps				1.348													
								3.00	6.1	1.6																						
								3.25	6.1	1.4																						
								3.50	6.2	1.4																						
	9	3.70	4.30	MC				3.75	5.8	1.3																						
								4.00	6.1	4.6																						
								4.25	6.2	1.9																						
	10	4.30	4.80	MC				4.50	6.1	5.0																						
								4.75	6.0	2.6																						
163	1	0.00	0.20	SCL				0.10	4.5	3.2																						
	2	0.20	0.50	SCL				0.30	4.6	3.6																						
											2	0.30	0.40						< 0.02													
	3	0.50	0.80	SL				0.60	4.9	3.6																						
								0.80	4.7	2.9																						
	4	0.80	1.00	MC	J			1.00	4.4	3.2	4	0.80	1.00							0.028	0	49			74	4.1	4.3	0.01	0.003		
	5	1.00	1.45	MC				1.25	4.9	2.9	5	1.20	1.30						< 0.02													
	6	1.45	1.65	SLC				1.50	5.8	2.8																						
											6	1.50	1.60						0.021													
	7	1.65	1.90	SLC				1.75	5.6	1.3																						
											7	1.75	1.85	S2	Pc				0.908													
	8	1.90	2.70	LS				2.00	5.4	1.4																						
											8	2.00	2.20		Ps				0.632													
								2.25	5.0	1.3																						
								2.50	5.1	1.2																						
	9	2.70	3.10	KS				2.75	5.3	1.3																						
								3.00	5.1	1.0																						
	10	3.10	3.30	KS				3.25	5.5	1.6																						
	11	3.30	4.20	MHC				3.50	5.1	3.2																						
								3.75	5.4	3.4																						
								4.00	5.7	3.2																						
	12	4.20	4.40	CS				4.25	6.0	3.0	13	4.20	4.30						< 0.02													
	13	4.40	4.60	MHC				4.50	6.0	3.4																						
164	1	0.00	0.15	SCL				0.10	5.2	1.9	1	0.00	0.10						< 0.02													
	2	0.15	0.40	SCL				0.30	5.8	3.5																						
	3	0.40	0.75	SCL				0.60	5.6	3.8																						
	4	0.75	1.20	CLFS				0.80	4.8	2.9																						
								1.00	4.8	3.7	4	0.80	1.00						< 0.02													
	5	1.20	1.90	MC				1.25	4.9	3.0	5	1.20	1.40							0.004	0	3			27	4.4	5.2	0.00	0.000		
								1.50	5.2	2.9																						
								1.75	5.1	3.4	6	1.60	1.80						< 0.02													
	6	1.90	2.15	LC				2.00	5.1	3.3																						
	7	2.15	2.40	SCL				2.25	4.9	3.4																						
	8	2.40	3.60	MHC				2.50	5.0	3.4																						
								2.75	4.9	3.0																						
								3.00	4.8	3.1																						
								3.25	4.9	1.5																						
								3.50	5.0	2.8																						

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH										Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
165	1	0.00	0.10	CLFS				0.10	5.2	3.8																					
	2	0.10	0.40	CLFS				0.30	5.1	4.3																					
	3	0.40	1.10	SLC				0.60	5.2	3.9	2	0.50	0.60					< 0.02													
								0.80	5.1	3.8																					
								1.00	5.0	3.5																					
	4	1.10	2.20	SLMC				1.25	5.3	4.0																					
								1.50	5.2	4.4	4	1.30	1.50					< 0.02													
								1.75	5.2	3.5																					
								2.00	4.9	3.8																					
	5	2.20	3.15	FSLC				2.25	5.1	3.3																					
								2.50	4.8	3.5	6	2.30	2.50					< 0.02													
								2.75	4.9	4.0																					
								3.00	4.9	4.0																					
	6	3.15	3.40	CLFS				3.25	4.9	3.3	8	3.20	3.30					< 0.02													
	7	3.40	3.75	FSL				3.50	4.8	4.3																					
								3.75	5.1	5.3																					
	8	3.75	4.80	KS				4.00	5.2	6.6	10	3.80	4.00					< 0.02	0.009	0	0			12	4.5	6.9	0.00	0.017		0.06
								4.25	5.3	6.8																					
								4.50	5.1	6.9																					
								4.75	5.3	6.4																					
	9	4.80	6.00	KS				5.00	5.5	5.3																					
								5.25	5.5	5.3																					
								5.50	5.4	5.2	13	5.30	5.50					< 0.02													
								5.75	5.4	4.5																					
								6.00	5.7	5.4																					
	10	6.00	6.85	KS				6.25	5.8	5.5																					
								6.50	5.5	4.6	15	6.30	6.50					< 0.02													
								6.75	5.4	4.9																					
	11	6.85	7.20	MC				7.00	6.1	5.9																					
								7.20	6.0	5.4																					
166	1	0.00	0.20	LS				0.10	5.8	4.5																					
	2	0.20	0.60	S				0.30	5.4	4.5																					
								0.60	6.4	5.1																					
	3	0.60	1.70	S				0.80	6.5	5.4																					
								1.00	6.1	5.3	3	0.80	1.00					< 0.02													
								1.25	6.7	4.5																					
								1.50	6.8	4.9																					
	4	1.70	2.70	S				1.75	6.5	5.2																					
								2.00	5.7	5.3	5	1.80	2.00					< 0.02													
								2.25	6.2	5.3																					
								2.50	5.2	5.2																					
	5	2.70	3.80	KS				2.75	5.0	4.7																					
								3.00	5.9	5.2	7	2.80	3.00					< 0.02													
								3.25	6.4	5.3																					
								3.50	6.5	5.1																					
								3.75	6.3	4.9																					
	6	3.80	4.80	LS				4.00	6.3	4.5	9	3.80	4.00					< 0.02													
								4.25	6.3	3.7																					
								4.50	6.1	1.8	10	4.40	4.60					0.021													
								4.75	6.3	1.5																					
	7	4.80	5.15	LS				5.00	6.1	2.7	11	4.80	5.00	S5	Ps			0.053													
	8	5.15	5.80	FSLC				5.25	6.7	2.1	12	5.20	5.40		Pc			0.447													
								5.50	6.7	2.2																					
								5.75	6.7	2.1																					
	9	5.80	6.40	KS				6.00	7.1	1.7																					
								6.25	7.5	1.8																					
	10	6.40	7.20	KS				6.50	7.5	1.6																					
								6.75	7.4	2.2																					
								7.00	7.2	2.2																					
								7.20	7.3	2.2																					
167	1	0.00	0.20	LC				0.10	5.4	3.8	1	0.00	0.20					0.042													
	2	0.20	0.35	SLC				0.30	6.0	1.1	2	0.20	0.35					0.075													
	3	0.35	1.25	CL				0.60	5.8	0.7	3	0.50	0.60	S0	Pl			0.79													
								0.80	6.4	1.1																					
								1.00	6.6	1.1																					
								1.25	6.5	1.3																					
	4	1.25	1.60	LC				1.50	6.4	1.1	5	1.30	1.50		Pc			1.354													
	5	1.60	1.80	CS				1.75	6.5	1.0																					
168	1	0.00	0.10	CL				0.10	4.9	3.0	1	0.00	0.10					0.04													
	2	0.10	0.20	MC																											
	3	0.20	0.60	MHC				0.30	4.8	3.0																					
											3	0.30	0.40					< 0.02													
								0.60	4.8	3.8																					
	4	0.60	0.90	LC	J			0.80	5.6	4.4	4	0.70	0.80						0.018	0	5			14	4.7	5.1	0.09	0.000		
	5	0.90	1.70	MHC				1.00	6.0	5.0																					
											5	1.00	1.20					0.033													
								1.25	6.2	4.0																					
								1.50	6.0	3.8																					
	6	1.70	2.20	LMC				1.75	5.8	1.1																					
								2.00	5.8	1.1	7	1.80	2.00	S2	Pc			1.964													
								2.20	5.8	1.1																					
169	1	0.00	0.10	S				0.10	4.9	3.5																					
	2	0.10	0.70	S				0.30	5.1	4.1																					
								0.60	4.9	4.5	3	0.50	0.60					< 0.02													
	3	0.70	1.15	S				0.80	5.5	5.4																					
								1.00	5.2	5.0																					
	4	1.15	2.40	KS				1.25	5.4	3.8																					
								1.50	5.5	3.4	5	1.30	1.50					< 0.02													
								1.75	5.2	3.9																					
								2.00	5.0	4.3																					
								2.25	5.7	5.0																					
	5	2.40	3.00	KS				2.50	4.9	4.2																					
								2.75	4.7	4.9																					
								3.00	4.1	3.8																					
	6	3.00	3.10	S	J			3.05	4.3	3.3	8	3.00	3.10					< 0.02													
	7	3.10	3.60	SCL				3.25	5.3	2.8																					
								3.50	5.2	1.7	9	3.30	3.50					< 0.02													
	8	3.60	5.15	KS				3.75	4.8	4.8																					
								4.00	4.8	4.8	10	3.80	4.00					< 0.02													
								4.25	4.6	4.4																					
								4.50	4.7	4.9																					
								4.75	5.7	4.2																					
								5.00	5.4	2.1																					
	9	5.15	6.40	S				5.25	5.3	1.7																					
								5.50	5.7	1.4	13	5.30	5.50					< 0.02													
								5.75	5.7	1.7																					
								6.00	5.8	1.9																					
								6.25	6.6	2.1																					
	10	6.40	6.75	ZMC				6.50	7.4	1.8																					
											15	6.50	6.70	S7	Pc			2.207													
								6.75	6.9	1.4																					
	11	6.75	7.20	KS				7.00	6.0	1.4																					
								7.20	5.9	2.0																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S		S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				s-ANC_E	s-Ca+s-Mg	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf								22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
170	1	0.00	0.10	L				0.10	4.6	3.3	1	0.00	0.10	S0	Pl			0.077													
	2	0.10	0.20	CL				0.20	5.3	1.7	2	0.10	0.20		Pl			0.109													
	3	0.20	0.60	SCL				0.30	5.5	1.7																					
											3	0.40	0.50					0.043													
								0.60	5.6	2.2																					
	4	0.60	1.30	KSCL				0.80	5.1	1.2																					
								1.00	5.3	1.7	4	0.80	1.00		Pl			0.071													
								1.25	6.0	2.6																					
	5	1.30	2.40	CS				1.50	5.0	1.3																					
											5	1.50	1.70		Ps			0.037													
								1.75	5.8	1.1																					
								2.00	5.8	1.4																					
								2.25	5.7	1.6																					
	6	2.40	3.00	KSL				2.50	5.8	1.9																					
											7	2.50	2.70		Pl			0.062													
								2.75	5.7	1.7																					
								3.00	5.9	1.6																					
	7	3.00	3.40	SLC				3.25	6.0	2.8	8	3.10	3.30					0.032													
	8	3.40	3.60	MHC				3.50	6.1	4.7	9	3.40	3.60					< 0.02													
	9	3.60	4.10	SMC				3.75	6.1	5.0																					
								4.00	6.2	5.3																					
	10	4.10	4.40	SMC				4.25	6.2	5.2																					
171	1	0.00	0.40	CLS				0.10	4.5	2.2																					
								0.30	4.5	2.6	2	0.20	0.30					< 0.02													
	2	0.40	0.80	SCL				0.60	5.2	3.7																					
								0.80	5.6	2.8																					
	3	0.80	1.00	CS				1.00	5.6	3.9																					
	4	1.00	1.60	KS				1.25	5.5	4.6																					
								1.50	5.3	4.5	5	1.30	1.50					< 0.02													
	5	1.60	2.00	SCL				1.75	5.9	1.6																					
								2.00	6.6	2.0	6	1.80	2.00	S2	Pl			0.227													
	6	2.00	3.30	MHC				2.25	6.5	3.9																					
								2.50	6.7	5.7																					
								2.75	6.5	6.0																					
								3.00	6.4	5.8	8	2.80	3.00					< 0.02													
								3.25	6.4	6.3																					
172	1	0.00	0.25	CLS				0.10	4.8	3.0																					
	2	0.25	0.50	SMC				0.30	5.1	4.4																					
											2	0.30	0.40					< 0.02													
	3	0.50	1.65	KSLMC				0.60	5.2	4.2	3	0.50	0.60					< 0.02													
								0.80	5.2	3.2																					
								1.00	5.3	4.1																					
								1.25	5.4	4.9																					
								1.50	5.4	4.3																					
	4	1.65	2.20	SCL				1.75	5.5	3.2																					
								2.00	5.2	3.8	6	1.80	2.00					< 0.02													
								2.20	5.3	5.0																					
173	1	0.00	0.50	L				0.10	6.3	2.4	1	0.00	0.20	S0	Pl			0.181													
								0.30	6.2	2.2																					
											2	0.30	0.50		Pl			0.206													
	2	0.50	0.90	IP				0.60	6.4	1.1																					
								0.80	6.6	1.1	3	0.60	0.90		Pl			1.929													
	3	0.90	1.30	SL				1.00	6.8	1.4																					
											4	1.00	1.20		Pl			0.593													
								1.25	6.9	1.3																					
	4	1.30	2.10	KSCL				1.50	6.6	1.2	5	1.30	1.50		Pl			1.065													
								1.75	7.0	1.1																					
								2.00	6.9	1.2																					
	5	2.10	2.50	MHC				2.25	6.8	1.7	7	2.20	2.40		Pc			1.52													
								2.50	6.7	1.6																					
174	1	0.00	0.15	S				0.10	6.3	3.9																					
	2	0.15	0.70	S				0.30	6.3	4.4																					
											2	0.30	0.50					< 0.02													
								0.60	5.7	4.6																					
	3	0.70	1.30	S				0.80	6.1	4.6																					
								1.00	6.0	5.0																					
								1.25	6.6	5.4																					
	4	1.30	2.90	S				1.50	6.4	5.4																					
								1.75	6.7	5.4																					
								2.00	6.8	5.3	4	1.80	2.00					< 0.02													
								2.25	6.9	5.0																					
								2.50	7.0	5.7																					
								2.75	6.0	5.1																					
	5	2.90	4.10	KS				3.00	4.9	4.0																					
											6	3.00	3.20					< 0.02													
								3.25	4.9	3.7																					
								3.50	5.8	4.8																					
								3.75	6.2	4.9																					
								4.00	6.4	5.0																					
	6	4.10	4.50	LS				4.25	6.3	5.0	8	4.20	4.40					< 0.02													
								4.50	6.6	5.1																					
	7	4.50	5.00	LS				4.75	6.8	5.2	9	4.60	4.80					< 0.02													
								5.00	7.0	2.7																					
	8	5.00	6.00	ZL			SS	5.25	7.4	6.8	10	5.10	5.30	S5	Pl	-0.161	-0.014		0.162	0	0			0	8.9	7.0	0.04	0.263	0.77	0.32
								5.50	7.8	6.7																					
								5.75	8.0	6.3	11	5.60	5.80		Pl			0.451													
								6.00	8.0	6.4																					
175	1	0.00	0.70	L				0.10	5.7	3.7	1	0.00	0.20	S0	Pl			0.292													
								0.30	5.9	2.8																					
								0.60	6.6	0.3	2	0.50	0.60		Pl			1.532													
	2	0.70	1.55	ZLC				0.80	6.5	0.5																					
								1.00	6.4	0.5	3	0.80	1.00		Pc			1.92													
								1.25	6.3	0.6																					
								1.50	6.3	0.7																					
	3	1.55	1.60	S				1.60	6.4	0.6																					
176	1	0.00	0.20	LS				0.10	5.0	1.9																					
	2	0.20	0.40	S				0.30	5.8	4.3	2	0.20	0.40					< 0.02													
	3	0.40	1.20	S				0.60	5.8	4.7																					
								0.80	6.0	4.7																					
								1.00	5.6	4.5	3	0.80	1.00					< 0.02													
	4	1.20	1.70	S				1.25	5.8	4.0																					
								1.50	5.5	4.5																					
	5	1.70	2.30	S				1.75	5.3	4.0																					
								2.00	5.4	4.2	5	1.80	2.00					< 0.02													
								2.25	5.4	4.3																					
	6	2.30	3.80	S				2.50	5.4	2.6																					
								2.75	5.5	3.8																					
								3.00	5.6	2.8	6	2.80	3.00					0.027													
								3.25	5.7	2.7																					
								3.50	5.9	2.7																					
								3.75	6.0	2.0	7	3.60	3.80	S3	Ps			0.042													
	7	3.80	4.70	S				4.00	6.4	3.2																					
											8	4.00	4.20		Ps			0.067													
								4.25	6.6	3.5																					
								4.50	6.9	3.7																					
	8	4.70	5.10	CS			SS	4.75	8.0	4.7																					
								5.00	8.6	7.1	10	4.80	5.00		Ps	-0.156	-0.005		0.301	0	0			0	8.7	7.1	0.02	0.459	0.90	0.38
	9	5.10	6.00	ZLC			SS	5.25	8.3	7.1																					
								5.50	8.4	6.9	11	5.30	5.50		Pc	-0.701	-0.371		0.473	0	0			0	8.5	7.0	0.03	1.265	1.92	1.29
								5.75	8.7	6.9																					
								6.00	8.7	6.8																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				s-ANC_E s-Ca+s-Mg	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf							22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
177	1	0.00	0.40	MC				0.10	4.5	3.2																			
								0.30	5.0	3.2	2	0.20	0.30				< 0.02												
	2	0.40	1.00	MC				0.60	4.5	3.7																			
								0.80	5.0	3.1	3	0.60	0.80				< 0.02												
								1.00	5.1	2.5																			
	3	1.00	1.30	MC							4	1.00	1.20				< 0.02												
								1.25	5.3	3.1	5	1.20	1.30				< 0.02												
	4	1.30	1.70	KS				1.50	5.8	3.8	6	1.40	1.60				< 0.02												
	5	1.70	2.60	KS				1.75	5.7	4.9																			
								2.00	5.6	4.9																			
								2.25	5.4	4.7																			
								2.50	5.6	4.9	8	2.30	2.50				< 0.02												
	6	2.60	3.70	MHC				2.75	6.2	2.3																			
								3.00	5.6	3.9																			
								3.25	6.5	4.8																			
								3.50	6.5	5.6																			
	7	3.70	4.80	MHC				3.75	6.5	5.7																			
								4.00	6.8	5.6																			
								4.25	7.0	5.3																			
178	1	0.00	0.20	CL				0.10	5.2	4.6																			
	2	0.20	0.55	CL				0.30	5.7	5.0																			
											2	0.30	0.50				< 0.02												
	3	0.55	0.90	CL				0.60	5.3	5.1																			
								0.80	5.2	4.6	3	0.60	0.80				< 0.02												
	4	0.90	1.10	SLC				1.00	4.6	3.1	4	0.90	1.10				< 0.02												
	5	1.10	1.60	SCL				1.25	4.3	3.2	5	1.20	1.40					0.012	0	81			87	3.8	4.3	0.04	0.001		
								1.50	4.0	2.8																			
	6	1.60	1.90	CLS				1.75	4.2	3.0																			
	7	1.90	2.30	CLS				2.00	4.6	2.2																			
								2.25	5.7	3.1																			
	8	2.30	2.50	SL				2.50	5.0	1.8	8	2.30	2.50	S3	Pl		0.192												
	9	2.50	3.05	SL				2.75	5.1	1.8	9	2.60	2.80		Pl		1.872												
								3.00	5.1	1.8																			
	10	3.05	4.30	S				3.25	5.2	2.4																			
								3.50	5.3	2.4	10	3.30	3.50		Ps		0.347												
								3.75	5.4	2.6																			
								4.00	5.2	2.7																			
								4.25	4.5	3.5																			
	11	4.30	5.70	KS				4.50	5.0	4.0																			
								4.75	5.3	3.4																			
								5.00	5.0	4.0																			
								5.25	5.1	5.1																			
								5.50	4.9	3.7																			
	12	5.70	6.35	KS				5.75	5.2	4.5																			
								6.00	5.1	4.9																			
								6.25	5.1	2.4																			
	13	6.35	6.90	ZMC				6.50	6.6	5.7	15	6.40	6.60				< 0.02												
								6.75	6.6	5.1																			
	14	6.90	7.20	HC				7.00	6.8	6.5																			
								7.20	6.8	6.3																			
179	1	0.00	0.10	CL				0.10	4.5	2.8	1	0.00	0.10				< 0.02												
	2	0.10	0.30	MC				0.30	4.4	3.0	2	0.20	0.30				< 0.02												
	3	0.30	1.15	MHC				0.60	5.7	4.0	3	0.50	0.60				< 0.02												
								0.80	6.2	4.7																			
								1.00	6.6	5.3	4	0.80	1.00				< 0.02												
	4	1.15	1.70	MC				1.25	6.7	1.6																			
								1.50	6.7	1.6	5	1.30	1.50	S2	Pc		0.686												
								1.65	6.6	2.2																			
	5	1.70	1.80	S				1.75	6.6	1.5	6	1.70	1.80		Ps		0.318												
180	1	0.00	0.20	S				0.10	6.1	4.2																			
	2	0.20	0.85	CLS				0.30	6.0	3.1	2	0.20	0.30				< 0.02												
								0.60	6.0	4.1	3	0.50	0.60				0.024												
								0.80	5.7	1.0																			
	3	0.85	1.10	LS				1.00	6.2	1.2	4	0.90	1.00	S1	Ps		0.499												
	4	1.10	2.00	S				1.25	6.2	1.3																			
								1.50	6.3	1.5	5	1.30	1.50		Ps		0.355												
								1.75	6.5	1.5																			
								2.00	6.7	1.4																			
	5	2.00	2.15	ZCL				2.10	6.6	1.3	7	2.00	2.15		Pl		1.459												
	6	2.15	3.20	S				2.25	6.6	1.5																			
								2.50	6.9	1.7	8	2.30	2.50		Ps		0.158												
								2.75	7.2	1.4																			
								3.00	7.0	1.4																			
	7	3.20	3.95	ZCL				3.25	6.9	1.5																			
								3.50	6.8	1.6	10	3.30	3.50		Pl		1.096												
								3.75	6.9	1.6																			
	8	3.95	4.10	LCFS				4.00	6.9	1.6																			
	9	4.10	4.80	S				4.25	7.0	1.8																			
								4.50	7.2	1.7																			
								4.75	7.4	1.8																			
181	1	0.00	0.20	SL				0.10	6.0	3.7																			
	2	0.20	1.10	MHC				0.30	5.6	4.1	2	0.20	0.30				< 0.02												
								0.60	5.6	3.7	3	0.50	0.60				< 0.02												
								0.80	5.6	4.0																			
								1.00	5.5	3.9																			
	3	1.10	1.55	S				1.25	6.1	3.6																			
								1.50	6.2	2.7	5	1.30	1.50				< 0.02												
	4	1.55	3.05	S				1.75	6.1	1.6																			
								2.00	6.4	1.4	6	1.80	2.00	S2	Ps		0.757												
								2.25	6.5	1.2																			
								2.50	6.1	1.6																			
								2.75	6.0	1.6																			
								3.00	6.3	1.7	8	2.80	3.00		Ps		0.484												
	5	3.05	5.20	S				3.25	6.4	1.1																			
								3.50	6.6	1.6																			
								3.75	6.6	1.5																			
								4.00	6.5	1.6	10	3.80	4.00		Ps		0.156												
								4.25	6.5	1.5																			
								4.50	6.6	1.6																			
								4.75	6.8	1.5																			
								5.00	6.9	1.4	12	4.80	5.00		Ps		0.453												
	6	5.20	5.90	S				5.25	6.4	1.2																			
								5.50	6.4	1.1																			
								5.75	6.6	1.1																			
	7	5.90	6.00	ZMC				6.00	7.2	1.3	14	5.90	6.00		Pc		1.263												
182	1	0.00	0.15	CLKS				0.10	6.3	4.3	1	0.00	0.15				< 0.02												
	2	0.15	0.70	KSLC				0.30	6.4	4.8	2	0.20	0.40				< 0.02												
								0.60	6.6	4.7	3	0.50	0.70	S0	Pc		0.119												
	3	0.70	1.20	KSLC				0.80	6.6	1.5																			
								1.00	6.8	1.4	4	0.80	1.00		Pc		1.19												
	4	1.20	1.40	KS				1.25	6.6	1.3																			
								1.40	6.3	1.6	6	1.20	1.40		Ps		1.556												

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH							pH KCl =>6.5		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)			%S	%S	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf					s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
183	1	0.00	0.20	MHC				0.10	6.4	5.8																			
	2	0.20	0.80	SCL				0.30	6.4	3.9																			
								0.60	5.7	2.2																			
								0.80	5.3	3.3	3	0.60	0.80				0.023												
	3	0.80	1.10	SCL				1.00	5.4	3.4																			
	4	1.10	1.45	SCL				1.25	5.6	3.4	5	1.10	1.30				< 0.02												
	5	1.45	1.60	SCL				1.50	6.5	4.7																			
	6	1.60	2.10	ZMC				1.75	7.1	5.9																			
								1.95	7.1	5.9																			
								2.00	7.1	4.6	7	1.80	2.00				< 0.02												
	7	2.10	2.20	ZMC				2.15	7.0	2.3	8	2.10	2.20	S3	Pc		0.24												
	8	2.20	2.40	SCL			SS	2.25	6.8	5.7	9	2.20	2.40			-0.256 -0.054		0.018	0	0			0	8.6	7.5	0.01	0.107		0.39
	9	2.40	2.80	MC				2.50	6.2	1.8																			
											10	2.50	2.70		Pc		2.032												
								2.75	6.7	1.5																			
	10	2.80	3.75	LC				3.00	7.1	1.6																			
											11	3.00	3.20		Pc		2.837												
								3.25	7.1	1.6																			
								3.50	7.5	1.8																			
								3.75	7.5	1.8																			
	11	3.75	4.35	MHC				4.00	7.5	3.8																			
											13	4.00	4.20		Pc		0.573												
								4.25	7.6	3.6																			
	12	4.35	4.80	MHC				4.50	7.8	5.2	14	4.40	4.60				0.038												
								4.75	8.5	6.8																			
184	1	0.00	0.50	MC				0.10	6.1	3.3																			
								0.30	6.9	6.7																			
	2	0.50	1.00	MC				0.60	7.8	7.7																			
								0.80	7.6	7.6																			
								1.00	7.6	6.6																			
	3	1.00	1.35	MC							5	1.10	1.20				< 0.02												
								1.25	7.4	5.7																			
	4	1.35	1.85	MC			SS	1.50	7.4	7.0																			
											6	1.50	1.70	S2	Pc	-1.371 -0.938		0.435	0	0			0	8.3	7.2	0.37	2.059		2.27
								1.75	7.3	6.7																			
	5	1.85	2.60	MC			SS	2.00	7.3	6.6	7	1.90	2.10		Pc	-1.497 -1.036		0.967	0	0			0	8.3	7.5	0.19	3.005		2.73
								2.25	7.6	6.7																			
								2.50	7.5	2.6																			
	6	2.60	3.10	MHC				2.75	7.3	3.6																			
								3.00	7.2	6.8	9	2.80	3.00				0.064												
	7	3.10	3.60	MHC				3.25	7.3	6.8																			
								3.50	7.3	7.2																			
185	1	0.00	0.10	L				0.10	6.1	4.6																			
	2	0.10	0.60	MC				0.30	6.2	4.4	2	0.20	0.30				< 0.02												
								0.60	6.7	5.6																			
	3	0.60	1.05	MC				0.80	6.6	5.3	4	0.70	0.90				0.024												
								1.00	7.0	6.2																			
	4	1.05	1.50	MC			SS				5	1.10	1.20			-0.192 -0.078		0.018	0	0			0	8.7	7.7	0.05	0.144	0.54	0.30
								1.25	7.8	6.2																			
											6	1.30	1.40			-0.789 -0.454		0.025	0	0			0	8.9	7.5	0.05	0.719	1.76	1.20
								1.50	7.5	6.8																			
	5	1.50	2.50	MC			SS	1.75	7.5	6.7	7	1.60	1.80	S2	Pc	-1.365 -1.054	0.357	0.801	0	0			0	8.7	8.0	0.16	2.782		2.45
								2.00	7.3	6.3																			
								2.25	7.4	6.2	8	2.20	2.40		Pc	-1.351 -0.911		1.019	0	0			0	8.5	7.8	0.21	2.895	3.75	2.54
								2.50	7.6	7.0																			
186	1	0.00	0.15	CL				0.10	6.4	3.1																			
	2	0.15	0.30	FSCL				0.30	4.8	2.9	2	0.20	0.30				< 0.02												
	3	0.30	0.80	FSLC				0.60	4.8	2.9																			
								0.80	4.9	3.3																			
	4	0.80	1.75	FSMC				1.00	4.8	3.3	4	0.80	1.00					0.004	0	11			27	4.2	5.9	0.01	0.000		
								1.25	5.0	3.5																			
								1.50	5.0	3.6	5	1.30	1.50				< 0.02												
								1.75	5.7	3.5																			
	5	1.75	2.30	FSCL				2.00	5.3	3.5																			
								2.25	5.5	3.4																			
	6	2.30	3.10	MHC				2.50	5.6	3.6																			
											7	2.50	2.70				< 0.02												
								2.75	5.6	3.7																			
								3.00	5.1	4.3																			
	7	3.10	4.40	HC				3.25	5.2	4.7																			
								3.50	5.5	4.4																			
								3.75	5.6	4.7																			
								4.00	6.0	4.2																			
								4.25	6.0	4.1																			
187	1	0.00	0.10	LC				0.10	4.8	2.0																			
	2	0.10	0.70	LC	J			0.30	4.8	2.0	2	0.20	0.30	S0	Pc		0.147	0.121	7	73			66	4.3	4.1	0.01	0.000		
								0.60	4.8	2.3	3	0.50	0.60					0.045	0	20			48	4.2	4.7	0.01	0.000		
	3	0.70	1.20	CLFS				0.80	4.8	2.9																			
								1.00	4.8	2.7	4	0.80	1.00				< 0.02												
	4	1.20	1.60	LMC				1.25	4.8	2.9																			
								1.50	4.4	2.9																			
	5	1.60	2.40	MC				1.75	4.7	3.2																			
								2.00	4.7	3.0	6	1.80	2.00				< 0.02												
								2.25	4.9	3.2																			
	6	2.40	3.15	SL				2.50	5.0	3.4																			
											7	2.60	2.70				< 0.02												
								2.75	4.5	3.3																			
								3.00	4.4	3.2																			
	7	3.15	4.10	MHC				3.25	4.9	3.4																			
								3.50	4.9	3.0	8	3.30	3.50				< 0.02												
								3.75	5.6	3.9																			
								4.00	5.5	3.9																			
	8	4.10	4.30	MHC				4.25	5.7	3.7																			
188	1	0.00	1.10	CL				0.10	7.4	5.4																			
								0.30	7.6	7.9																			
								0.60	7.2	7.3																			
								0.80	6.4	7.0																			
								1.00	6.9	5.4																			
	2	1.10	1.35	KS				1.25	7.0	5.2	3	1.10	1.30				< 0.02												
	3	1.35	1.60	CS				1.50	7.4	5.8	4	1.40	1.60	S2	Ps		0.042												
	4	1.60	2.00	IP				1.75	5.3	1.2	5	1.70	1.90		Pl		1.115												
								2.00	7.5	1.5																			
	5	2.00	2.40	KS			SS	2.25	8.1	5.3	6	2.10	2.30		Ps			0.742	72	72			0	7.6	4.3	0.14	0.385		
	6	2.40	3.10	ZLC			SS	2.50	8.2	4.7	7	2.40	2.60		Pc			2.261	321	321			0	7.9	3.1	0.10	1.251		
								2.75	8.6	6.0																			
								3.00	8.7	6.5																			
	7	3.10	3.70	SCL			SS	3.25	8.6	6.5																			
								3.50	8.5	6.3	9	3.30	3.50		Pl	-3.254 -2.671		0.957	0	0			0	8.6	7.4	0.06	5.442		5.36
	8	3.70	4.80	ZLC			SS	3.75	8.4	5.8																			
								4.00	8.3	5.6																			
								4.25	8.9	6.8																			
								4.50	8.9	6.9																			
								4.75	8.7	6.9																			

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	$a\text{-}S_{RAS}$	$a\text{-}S_{NAS}$	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	$s\text{-}Ca_A+s\text{-}Mg_A$	$s\text{-}ANC_{BT}$	$s\text{-}ANC_E$
		(m)						(m)				(m)			%S	%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						$s\text{-}ANC_E$	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
189	1	0.00	0.25	CL				0.10	4.9	2.6																					
	2	0.25	0.55	CL				0.30	4.1	2.8																					
											2	0.30	0.40					0.022													
	3	0.55	0.70	KSCL				0.60	4.0	2.2																					
	4	0.70	1.10	LC				0.80	3.9	2.3																					
								1.00	4.0	2.8	4	0.80	1.00						0.007	0	97			110	3.8	4.7	0.02	0.009		
	5	1.10	1.50	KS				1.25	5.1	2.8																					
											5	1.30	1.40					< 0.02													
								1.50	5.3	2.9																					
	6	1.50	1.65	MCS							6	1.50	1.60					< 0.02													
	7	1.65	1.85	S				1.75	5.9	3.2	7	1.70	1.80					< 0.02													
	8	1.85	2.35	LMC				2.00	6.1	1.3	8	1.90	2.10	S2	Pc			0.195													
								2.25	5.4	1.2																					
	9	2.35	2.70	LC				2.50	6.4	1.2																					
											10	2.50	2.70		Pc			2.68													
	10	2.70	3.10	MC				2.75	6.6	1.2																					
								3.00	6.9	1.5																					
	11	3.10	3.40	MC				3.25	7.1	2.1	12	3.20	3.40		Pc			0.722													
	12	3.40	3.60	MHC				3.50	6.5	3.2																					
190	1	0.00	0.15	S				0.10	5.6	2.5																					
	2	0.15	0.65	S				0.30	5.9	3.0																					
								0.60	5.9	3.0																					
	3	0.65	0.85	S				0.80	6.0	2.6	3	0.70	0.80					< 0.02													
	4	0.85	1.15	LC				1.00	4.8	3.0	4	0.90	1.00					< 0.02													
	5	1.15	2.20	KS			SS	1.25	5.7	4.5																					
								1.50	6.1	4.9																					
								1.75	4.2	4.8																					
								2.00	6.1	2.4	6	1.80	2.00						0.004	0	0			1	5.9	6.2	0.00	0.004		
	6	2.20	2.80	S			SS	2.25	6.6	2.5																					
								2.50	7.5	2.0																					
											7	2.50	2.70	S3	Ps			0.132													
								2.75	8.5	2.0																					
	7	2.80	3.40	FSLMC			SS	3.00	8.7	6.8	8	2.90	3.10		Pc	-0.111	0.259		1.224	0	0			0	8.0	7.5	0.06	1.448		0.78
								3.25	9.2	7.3																					
	8	3.40	5.20	LMC			SS	3.50	9.1	4.2																					
								3.75	8.6	2.4																					
								4.00	9.4	3.6																					
											11	4.00	4.20		Pc			1.354													
								4.25	8.9	3.2																					
								4.50	8.7	4.5																					
								4.75	8.7	1.8																					
								5.00	8.9	4.8																					
	9	5.20	6.00	MHC				5.25	8.8		14	5.20	5.40		Pc			1.903													
								5.50	8.8	2.2																					
								5.75	8.6	5.0																					
								6.00	5.7	5.9																					
191	1	0.00	0.20	CL				0.10	3.9	2.7																					
	2	0.20	0.35	MHC				0.30	3.7	2.4	2	0.20	0.30						0.080	29	225			196	3.8	3.7	0.05	0.000		
	3	0.35	0.75	MC				0.60	3.4	2.2	3	0.50	0.60						0.021	13	221			208	3.5	3.9	0.07	0.000		
	4	0.75	1.00	MC				0.80	3.3	1.8																					
								1.00	3.5	1.6	4	0.80	1.00						0.086	57	229			172	3.7	3.1	0.03	0.000		
	5	1.00	1.40	MC				1.25	3.4	1.3	5	1.00	1.40					0.03													
	6	1.40	1.60	MC				1.50	3.6	1.3	6	1.40	1.60					0.041													
	7	1.60	1.80	MC				1.75	3.6	1.2	7	1.60	1.80	S2	Pc				1.192	701	787			86	3.7	2.2	0.08	0.002		
	8	1.80	2.40	MHC				2.00	5.2	2.6																					
											8	2.00	2.20					< 0.02													
								2.25	5.3	2.9																					
192	1	0.00	0.10	CL				0.10	4.7	2.3																					
	2	0.10	0.40	CL				0.30	5.1	2.9	2	0.20	0.30					< 0.02													
	3	0.40	0.80	MC				0.60	6.1	3.2	3	0.50	0.60					0.057													
								0.80	6.4	2.2																					
	4	0.80	2.30	LC				1.00	6.7	1.1	4	0.80	1.00	S1	Pc			0.536													
								1.25	6.5	1.3																					
								1.50	6.7	1.3																					
								1.75	6.7	1.2																					
								2.00	6.7	1.4	6	1.80	2.00		Pc			2.488													
								2.25	6.8	1.3																					
	5	2.30	4.30	ZLMC				2.50	6.6	1.5																					
								2.75	6.8	1.6																					
								3.00	6.9	1.5	8	2.80	3.00		Pc			1.957													
								3.25	6.9	1.5																					
								3.50	6.6	1.6																					
								3.75	7.0	1.5																					
								4.00	6.6	1.5																					
								4.25	6.9	1.6																					
	6	4.30	4.50	KSLC				4.50	7.0	1.5																					
	7	4.50	5.60	MHC				4.75	7.2	7.9																					
								5.00	7.4	8.4	12	4.80	5.00						0.067	9	9			0	6.5	6.3	0.05	0.003	0.10	
								5.25	7.9	8.6																					
								5.50	7.3	7.9																					
193	1	0.00	0.10	CL				0.10	4.8	2.8																					
	2	0.10	0.50	LC				0.30	5.4	3.5																					
											2	0.30	0.40					< 0.02													
	3	0.50	1.00	MC				0.60	4.9	3.5																					
								0.80	4.7	3.1	3	0.70	0.90					< 0.02													
								1.00	4.9	3.3																					
	4	1.00	2.00	MC				1.25	4.9	3.3																					
								1.50	5.3	3.6	4	1.30	1.50					< 0.02													
								1.75	5.8	3.9																					
								2.00	6.1	4.1																					
	5	2.00	2.40	MC				2.25	6.5	5.5																					
	6	2.40	3.20	SMC				2.50	6.7	7.8																					
								2.75	6.9	8.0																					
								3.00	7.0	5.9																					
											8	3.00	3.20						0.007	0	0			7	5.7	7.8	0.01	0.015	0.03	0.09
194	1	0.00	0.10	FSCL				0.10	5.7	4.3																					
	2	0.10	0.75	MC				0.30	6.8	5.2	2	0.20	0.30					< 0.02													
								0.60	7.0	5.2																					
	3	0.75	1.20	CLFS				0.80	7.0	5.4																					
								1.00	7.1	5.3	4	0.80	1.00					< 0.02													
	4	1.20	2.40	MC				1.25	7.0	4.8																					
								1.50	6.7		5	1.30	1.50						0.030	0	0			1	6.4	6.5	0.04	0.001	0.06	
								1.75	6.8	5.0																					
								2.00	6.9	4.8																					
								2.25	6.9	4.7																					
	5	2.40	3.50	MHC				2.50	6.9	7.3																					
								2.75	6.9	6.9																					
								3.00	6.9	7.4	8	2.80	3.00						0.000	0	0			1	6.4	7.0	0.02	0.002	0.06	0.10
								3.25	6.8	7.4																					
								3.50	6.8	7.3																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)	23Af	23Bf		(m)				s-ANC_E s-Ca+s-Mg	%S 22B	23Ee	mol H+/t 23H	23G	mol H+/t a-23Re	a-20J	23F	23A	23B	23Ce	%S s-23Xh+s-23Um	%S s-19A2	%S s-23Q
195	1	0.00	0.30	LCS				0.10	4.9	3.3																			
								0.30	4.7	3.8																			
	2	0.30	0.70	LCS				0.60	4.7	3.7	2	0.50	0.60				< 0.02												
	3	0.70	1.40	LCS				0.80	5.2	4.1																			
								1.00	5.3	4.1	3	0.80	1.00				< 0.02												
								1.25	5.2	3.7																			
	4	1.40	3.00	CL				1.50	7.2	2.0	4	1.40	1.60	S2	Pl		0.953												
								1.75	7.3	1.2																			
								2.00	7.2	1.1																			
								2.25	7.0	1.1																			
								2.50	7.1	1.1	6	2.30	2.50		Pl		3.231												
								2.75	7.0	1.1																			
								3.00	6.8	1.2																			
	5	3.00	5.20	ZLC				3.25	7.2	1.2																			
								3.50	7.0	1.5																			
								3.75	6.9	1.4																			
								4.00	6.9	1.6	9	3.80	4.00		Pc		1.808												
								4.25	6.9	1.6																			
								4.50	6.9	1.5																			
								4.75	7.2	1.6																			
								5.00	7.1	1.6																			
	6	5.20	5.60	KSLC				5.25	7.1	1.9																			
								5.50	7.6	4.4	12	5.30	5.50				0.088												
	7	5.60	5.90	KSMC				5.75	7.8	1.7																			
	8	5.90	6.00	KSMHC				6.00	7.6	7.4	14	5.90	6.00				< 0.02												
196	1	0.00	0.10	CL				0.10	5.3	4.1																			
	2	0.10	0.45	CL				0.30	5.0	4.0	2	0.20	0.30				< 0.02												
	3	0.45	0.95	SCL				0.60	4.7	3.7																			
								0.80	4.3	3.0	3	0.70	0.80				< 0.02												
	4	0.95	1.50	SCL				1.00	4.6	3.2																			
								1.25	5.9	2.8																			
								1.50	6.3	3.0																			
	5	1.50	2.00	MC				1.75	6.9	3.7	6	1.60	1.80				0.023												
								2.00	7.0	2.6																			
	6	2.00	3.20	LC							7	2.00	2.20	S2	Pc		2.244												
								2.25	7.4	1.3																			
								2.50	7.1	1.4																			
								2.75	7.3	1.5																			
								3.00	7.2	1.4																			
											9	3.00	3.20		Pc		2.342												
	7	3.20	3.50	KS				3.25	7.1	1.4	10	3.20	3.40		Ps		0.125												
								3.50	7.5	2.5																			
	8	3.50	4.30	CS				3.75	6.9	5.0	11	3.70	3.90				< 0.02												
								4.00	6.8	5.4																			
								4.25	7.0	5.0																			
	9	4.30	5.40	KS				4.50	7.0	5.2	13	4.30	4.50				< 0.02												
								4.75	7.2	5.3																			
								5.00	6.8	4.6																			
								5.25	6.8	4.6																			
	10	5.40	5.50	KS				5.50	7.1	5.0																			
	11	5.50	5.80	MHC				5.75	6.9	6.8																			
197	1	0.00	0.30	SCL				0.10	6.4	3.7																			
								0.30	7.0	1.5	2	0.10	0.30	S0	Pl		1.198												
	2	0.30	0.50	LMC																									
	3	0.50	1.05	HC				0.60	7.4	3.8	4	0.50	0.70		Pc		0.232												
								0.80	7.3	4.6																			
								1.00	7.4	2.4																			
	4	1.05	1.45	MCS				1.25	7.4	3.9																			
	5	1.45	2.10	HC				1.50	7.2	5.8																			
											7	1.50	1.70				< 0.02												
								1.75	7.4	4.6																			
								2.00	7.2	5.4																			
198	1	0.00	0.10	CL				0.10	5.4	3.3																			
	2	0.10	1.65	CL				0.30	5.6	6.5	2	0.20	0.30				< 0.02												
								0.60	5.3	3.4																			
								0.80	5.9	4.6																			
								1.00	5.6	4.3	4	0.80	1.00				< 0.02												
								1.25	5.3	3.9																			
								1.50	6.2	4.1																			
	3	1.65	2.10	CL				1.75	6.2	4.3																			
								2.00	6.6	3.7	6	1.80	2.00				< 0.02												
	4	2.10	2.60	S				2.25	7.0	4.0																			
								2.50	6.5	5.7	7	2.30	2.50				< 0.02												
	5	2.60	3.10	CL				2.75	6.7	4.9	8	2.70	2.90				< 0.02												
								3.00	6.5	2.4																			
	6	3.10	3.60	FSCL				3.25	6.3	1.6																			
								3.50	6.5	2.1	10	3.40	3.60	S4	Pl		1.341												
	7	3.60	4.80	S				3.75	6.3	2.1																			
								4.00	6.7	2.0																			
								4.25	7.0	2.5																			
								4.50	6.9	2.5	12	4.30	4.50		Ps		0.034												
								4.75	7.2	2.0																			
	8	4.80	5.80	KS				5.00	7.3	4.0																			
								5.25	5.4	2.8																			
								5.50	6.0	2.1																			
								5.75	5.7	2.1	14	5.60	5.80		Ps		0.167												
	9	5.80	6.45	KS				6.00	6.1	1.8																			
								6.25	6.4	1.8																			
	10	6.45	9.60	CL				6.50	6.2	1.2																			
								6.75	6.7	1.2																			
								7.00	7.0	1.1																			
								7.25	7.3	1.4																			
								7.50	7.5	1.4																			
											18	7.50	7.70		Pl		1.596												
								7.75	8.1	1.8																			
								8.00	8.1	1.4																			
								8.25	7.9	1.5																			
								8.50	8.1	1.6																			
								8.75	8.1	1.6																			
								9.00	8.3	1.4																			
								9.50	8.2	1.4																			
	11	9.60	9.90	KSL				9.75	8.0	1.6																			
	12	9.90	11.30	CL				10.00	8.2	1.7																			
								10.50	8.3	1.5																			
											24	10.50	10.70		Pl		2.429												
								11.00	8.3	1.5																			
	13	11.30	11.85	FSLC				11.50	7.6	1.7																			
	14	11.85	14.40	CS				12.00	6.9	1.6																			
								12.50	5.9	1.6																			
											28	12.50	12.70		Ps		0.478												
								13.00	6.4	2.0																			
								13.50	5.8	1.4																			
								14.00	5.6	1.6																			
								14.25	5.4	1.5																			
199	1	0.00	0.30	MC				0.10	6.2	5.1																			
								0.30	6.4	5.1																			
	2	0.30	0.75	MC							3	0.40	0.50				< 0.02												
								0.60	6.2	5.3																			
	3	0.75	1.10	SMC				0.80	7.1	4.8																			
								1.00	6.8	1.4	4	0.80	1.00	S1	Pc		0.195												
	4	1.10	2.20	CS			SS	1.25	6.9	1.4	5	1.20	1.40		Ps		0.286												
								1.50	6.8	1.5																			
								1.75	7.1	1.5																			
								2.00	6.8	3.3																			
								2.20	7.2	3.3																			

Field Morphology Summary										Lab Sample				Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH										Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
200	1	0.00	0.10	CL				0.10	5.8	3.9																					
	2	0.10	0.55	CL				0.30	6.0	3.5																					
											2	0.30	0.50	S0	Pl			0.069													
	3	0.55	1.05	MC				0.60	7.3	2.1																					
								0.80	8.0	3.3																					
								1.00	7.3	1.4	3	0.80	1.00		Pc			0.257													
	4	1.05	1.20	CKS				1.20	6.5	1.1	4	1.10	1.20		Ps			0.513													
201	1	0.00	0.35	SCL				0.10	4.6	2.0																					
								0.30	4.3	1.8	1	0.20	0.30					< 0.02													
	2	0.35	0.70	KSCL				0.60	4.4	3.0																					
	3	0.70	1.00	KSMC				0.80	4.4	3.2																					
								1.00	5.2	2.7	3	0.80	1.00					< 0.02													
	4	1.00	1.25	LC							4	1.10	1.20					0.024													
								1.25	5.2	1.9																					
	5	1.25	1.60	CS				1.50	6.3	2.7	5	1.30	1.50					< 0.02													
	6	1.60	1.70	MC				1.70	6.6	4.9	6	1.60	1.70					0.052													
202	1	0.00	0.20	CL				0.10	5.9	2.9																					
	2	0.20	0.40	CLKS				0.30	5.1	3.4	2	0.20	0.40					< 0.02													
	3	0.40	0.90	LC				0.60	5.0	2.5																					
								0.80	4.9	2.1	3	0.60	0.80					< 0.02													
	4	0.90	1.00	LC				1.00	5.2	2.4	4	0.90	1.00					0.024													
203	1	0.00	0.50	CL				0.10	5.7	3.3																					
								0.30	5.4	4.3																					
	2	0.50	2.20	FSCL				0.60	6.2	4.5																					
								0.80	6.5	4.3																					
								1.00	6.1	4.6	3	0.80	1.00					< 0.02													
								1.25	6.1	4.1																					
								1.50	5.8	4.5																					
								1.75	5.8	4.5																					
								2.00	5.9	4.2	5	1.80	2.00					< 0.02													
	3	2.20	2.60	CFS				2.25	5.8	3.9																					
								2.50	5.7	4.1																					
	4	2.60	3.10	S				2.75	6.1	3.0																					
								3.00	6.2	6.8	7	2.80	3.00					< 0.02													
	5	3.10	3.90	KS				3.25	6.3	5.5																					
								3.50	6.4	6.0																					
								3.75	6.4																						
	6	3.90	4.45	S				4.00	6.5																						
								4.25	6.6																						
	7	4.45	5.20	LKS				4.50	6.2																						
	8	5.20	6.70	KS				6.00	6.6	4.9																					
								6.25	6.5	5.0	14	6.10	6.30					< 0.02													
								6.50	6.1	4.1																					
	9	6.70	7.90	FSCL				6.75	6.3	1.8																					
								7.00	6.4	3.3	16	6.90	7.10	S7	Pl			0.24													
								7.25	6.4	2.4																					
								7.50	6.5	1.8																					
								7.75	6.5	2.1																					
	10	7.90	8.50	FSCL				8.00	6.7	1.9																					
											18	8.00	8.20		Pl			1.243													
								8.25	6.8	1.4																					
								8.50	6.8	1.4																					
	11	8.50	9.60	CL				8.75	6.8	1.5																					
								9.00	6.9	1.4																					
								9.25	6.8	1.6	20	9.10	9.30		Pl			2.75													
								9.50	6.9	1.2																					
	12	9.60	10.00	CKS				9.75	6.7	2.0																					
								10.00	6.9	1.5																					
	13	10.00	11.30	CL				10.25	6.8	1.5																					
								10.75	6.9	1.5	23	10.70	10.90		Pl			1.719													
								11.00	6.8	1.4																					
	14	11.30	11.70	FSCL				11.50	6.6	2.0																					
	15	11.70	12.50	SCL				11.75	6.8	1.6																					
								12.00	6.8	1.8	26	11.80	12.00		Pl			0.697													
								12.25	6.5	1.8																					
								12.50	6.7	1.5																					
	16	12.50	13.65	SCL				12.75	6.4	1.3																					
								13.00	6.4	1.3	28	12.80	13.00		Pl			0.675													
								13.25	6.1	1.5																					
								13.50	6.1	1.3																					
	17	13.65	15.50	KS				13.75	5.8	1.3																					
								14.00	5.4	1.3																					
								14.25	5.3	1.6																					
								14.50	5.0	1.5																					
								14.75	4.9	1.4																					
								15.00	4.9	1.3	32	14.80	15.00		Ps			0.358													
								15.25	5.2	0.9																					
								15.50	5.4	1.3																					
	18	15.50	16.30	CKS				15.75	5.4	6.0																					
								16.00	5.9	6.1																					
								16.25	6.4	1.8																					
	19	16.30	16.80	CKS				16.50	5.8	1.9	35	16.30	16.50					0.023													
								16.75	5.7	1.9																					
204	1	0.00	0.35	FSCL				0.10	5.1	3.1																					
								0.30	5.3	3.4																					
	2	0.35	2.10	LFS				0.60	4.9	3.6																					
								0.80	5.3	4.7	3	0.60	0.80					< 0.02													
								1.00	5.3	5.0																					
								1.25	5.9	5.2																					
								1.50	6.0	3.2																					
								1.75	6.0	4.8																					
								2.00	5.7	4.4																					
	3	2.10	2.55	CFS				2.25	5.6	4.2	6	2.10	2.30					< 0.02													
								2.50	6.1	5.8																					
	4	2.55	3.50	CLS				2.75	5.7	5.5																					
								3.00	5.6	3.7																					
								3.25	5.9	3.3	8	3.20	3.40					< 0.02													
								3.50	6.4	3.4																					
	5	3.50	4.10	CFS				3.75	6.4	3.1																					
								4.00	6.3	2.5	9	3.80	4.00					< 0.02													
	6	4.10	4.20	KS				4.20	6.3	1.8																					
	7	4.20	4.40	CL				4.40	6.0	1.0																					
	8	4.40	7.05	KS				4.75	6.3	4.3																					
								5.00	6.3	5.7	10	4.80	5.00					< 0.02													
								5.25	6.2	6.5																					
								5.50	6.3	7.1																					
								5.75	6.6	7.4																					
								6.00	6.5	5.8																					
								6.25	7.0	5.4																					
								6.50	6.7	5.4	13	6.30	6.50					< 0.02													
								6.75	6.6	5.2																					
								7.00	6.2	4.5																					
	9	7.05	7.60	FSL				7.25	6.0	1.4																					
								7.50	6.2	2.0	15	7.30	7.50					0.029													
	10	7.60	8.40	LS				7.75	6.1	5.1																					
								8.00	6.1	5.1																					
								8.25	6.3	5.1																					
	11	8.40	9.00	KS				8.50	6.6	4.9																					
								8.75	6.5	5.2																					
								9.00	6.2	2.4	18	8.80	9.00					< 0.02													
	12	9.00	10.10	S				9.05	5.9	1.4																					
								9.25	6.4	5.2																					
								9.50	6.5	5.2	19	9.30	9.50					< 0.02													
								9.75	6.5	5.2																					
								10.00	6.6	3.9																					
	13	10.10	10.80	KS				10.25	6.7	4.9																					
								10.50	6.5	5.2																					
								10.75	6.4	5.2																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
205	1	0.00	0.30	CL				0.10	5.8	4.5																				
								0.30	6.6																					
	2	0.30	0.90	CL				0.60	5.2	3.4	3	0.50	0.70				< 0.02													
								0.80	5.9	4.0																				
	3	0.90	2.00	CFS				1.00	6.2	5.0																				
								1.25	6.5	2.0																				
								1.50	6.6	4.8																				
											5	1.50	1.70				< 0.02													
								1.75	6.5	7.9																				
								2.00	6.3	4.0																				
	4	2.00	3.15	CLFS				2.25	6.0	4.6																				
								2.50	5.7	3.7																				
								2.75	5.8	5.0																				
								3.00	5.7	4.7																				
	5	3.15	3.35	CS				3.25	5.8	3.0	8	3.15	3.25				< 0.02													
	6	3.35	7.80	KS				3.50	6.1	2.7																				
								3.75	6.2	4.7																				
								4.00	6.4	3.9																				
								4.25	6.4	2.8																				
								4.50	6.5	5.2																				
								4.75	6.4	6.2																				
								5.00	6.1	6.7	11	4.80	5.00				< 0.02													
								5.25	6.0																					
								5.50	6.2																					
								5.75	6.1																					
								6.00	5.8	6.8																				
								6.25	7.2	7.2																				
								6.50	6.3	7.4																				
								6.75	6.4	7.0																				
								7.00	6.7	7.6																				
								7.25	6.6	7.6																				
								7.50	6.8	7.9																				
								7.75	6.9	7.9																				
	7	7.80	9.10	KS				8.00	6.8	7.4																				
								8.25	6.7	7.3																				
								8.50	6.7	7.5																				
								8.75	6.9	7.9																				
								9.00	6.7	8.6																				
	8	9.10	9.50	KS				9.25	6.6	8.0																				
								9.50	6.8	7.7	20	9.30	9.50				< 0.02													
	9	9.50	10.70	KS				9.75	6.8	8.1																				
								10.00	6.6	8.4																				
								10.25	6.9	8.3																				
								10.50	6.4	8.1																				
	10	10.70	11.50	KS				10.75	6.7	8.2																				
								11.00	6.8	5.8																				
								11.25	6.8	6.8																				
								11.50	6.8	6.7																				
	11	11.50	12.00	KS				11.75	6.5	8.0																				
								12.00	6.7	7.6																				
206	1	0.00	0.20	CL				0.10	6.4	3.1																				
	2	0.20	0.40	CL				0.30	5.2	4.7																				
	3	0.40	0.85	CL				0.60	5.5	3.4																				
								0.80	5.9	3.2	3	0.60	0.80				< 0.02													
	4	0.85	1.20	CFS				1.00	5.0	3.8																				
	5	1.20	3.30	CL				1.25	5.4	4.0																				
								1.50	5.6	4.0	5	1.30	1.50				< 0.02													
								1.75	5.7	4.0																				
								2.00	5.6	3.9																				
								2.25	5.9	4.3																				
											7	2.30	2.50				< 0.02													
								2.75	6.1	4.5																				
								3.00	5.9	5.0																				
								3.25	6.3	3.9																				
	6	3.30	4.20	KS				3.50	6.5	3.9	9	3.30	3.50				< 0.02													
								3.75	6.4	4.4																				
								4.00	6.4	4.8																				
	7	4.20	6.60	KS				4.25	6.5	4.9																				
								4.50	6.5	4.4																				
								4.75	6.4	4.9																				
								5.00	6.5	4.6	12	4.80	5.00				< 0.02													
								5.25	6.0																					
								5.50	6.3	4.6																				
								5.75	6.3	4.6																				
								6.00	6.4	5.1																				
								6.25	6.4	3.1																				
								6.50	6.3	5.2	14	6.30	6.50				< 0.02													
	8	6.60	6.85	KS				6.75	6.9	6.9																				
	9	6.85	7.20	KS				7.00	7.1	7.4																				
	10	7.20	9.60	KS				7.25	6.9	7.7																				
								7.50	6.8	7.8																				
								7.75	6.9	7.8																				
								8.00	7.1	8.0																				
								8.25	6.9	7.7																				
								8.50	6.8	8.0	19	8.30	8.50				< 0.02													
								8.75	7.0	7.9																				
								9.00	6.9	8.1																				
								9.25	6.9	8.4																				
								9.50	7.2	7.9																				
207	1	0.00	0.15	CL				0.10	5.7	3.1																				
	2	0.15	0.50	CL				0.30	6.0	4.1																				
											2	0.30	0.50				< 0.02													
	3	0.50	1.20	CL				0.60	6.5	5.8																				
								0.80	6.8	6.0																				
								1.00	6.8	5.4																				
	4	1.20	2.20	CFS				1.25	6.7	5.5																				
								1.50	6.3	4.6	4	1.30	1.50				< 0.02													
								1.75	6.6	4.4																				
								2.00	6.6	4.9																				
	5	2.20	3.00	S				2.25	6.7	4.4																				
								2.50	6.6	4.7	6	2.30	2.50				< 0.02													
								2.75	6.8	5.1																				
								3.00	6.5	4.9																				
	6	3.00	3.20	KS				3.10	7.0	6.8																				
	7	3.20	4.90	KS				3.25	6.9	7.2																				
								3.50	6.7	5.4																				
								3.75	6.6	5.3																				
								4.00	6.9	5.6																				
								4.25	6.9	5.2																				
								4.50	6.9	5.6	11	4.30	4.50				< 0.02													
								4.75	7.0	5.7																				
	8	4.90	7.10	KS				5.00	6.9	5.6																				
								5.25	6.9	5.9																				
								5.50	7.2	6.0																				
								5.75	7.0	5.8																				
								6.00	7.1	4.8	14	5.80	6.00				< 0.02													
								6.25	6.6	5.8																				
								6.50	6.7	5.5																				
								6.75	6.8	5.6																				
								7.00	6.5	5.6	16	6.80	7.00				< 0.02													
	9	7.10	8.30	CL				7.25	6.3	2.1																				
								7.50	6.6	2.2	17	7.30	7.50	S8	Pl		0.661													
								7.75	6.8	1.8																				
								8.00	6.7	1.8																				
								8.25	6.8	1.9																				
	10	8.30	8.40	CFS				8.40	6.6	2.3																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t			%S				%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
208	1	0.00	0.10	CL				0.10	5.7	2.7																				
	2	0.10	0.30	CL				0.30	5.1	5.2	2	0.20	0.30				< 0.02													
	3	0.30	0.90	FSCL				0.60	5.7	5.6																				
								0.80	5.7	4.5																				
	4	0.90	1.60	SL				1.00	5.4	4.0																				
								1.25	5.3	3.9																				
								1.50	5.3	4.0	4	1.30	1.50				< 0.02													
	5	1.60	2.10	SL				1.75	5.3	4.0																				
								2.00	5.3	4.0																				
	6	2.10	3.60	KSL				2.25	5.5	5.0																				
								2.50	5.5	4.8	6	2.30	2.50				< 0.02													
								2.75	6.0	6.2																				
								3.00	5.8	6.2																				
								3.25	5.9	6.6																				
								3.50	5.7	5.1																				
	7	3.60	6.00	LMC				3.75	5.6	4.3																				
								4.00	5.6	4.9																				
								4.25	5.6	5.0																				
								4.50	5.4	4.1																				
								4.75	5.5	4.1																				
								5.00	5.5	5.1	11	4.80	5.00				< 0.02													
								5.25	5.8	4.8																				
								5.50	5.8	6.1																				
								5.75	5.9	5.7																				
								6.00	5.9	6.6																				
209	1	0.00	0.20	FSL				0.10	6.0	3.2																				
	2	0.20	0.40	FSL				0.30	6.0	3.7	2	0.20	0.40				< 0.02													
	3	0.40	1.55	FSL				0.60	6.1	4.6																				
								0.80	5.7	4.7																				
								1.00	5.9	3.9	3	0.80	1.00				< 0.02													
								1.25	5.9	3.9																				
								1.50	5.6	4.8																				
	4	1.55	3.25	FSL				1.75	5.7	4.2																				
								2.00	5.8	5.0	5	1.80	2.00				< 0.02													
								2.25	5.8	4.6																				
								2.50	5.8	4.8																				
								2.75	6.1	4.4																				
								3.00	6.4	5.2	7	2.80	3.00				< 0.02													
								3.25	6.3	3.8																				
	5	3.25	3.90	SL				3.50	5.9	4.0	8	3.30	3.50				0.023													
								3.75	6.0	6.4																				
	6	3.90	4.40	SL				4.00	6.0	3.9																				
								4.25	6.1	3.7	10	4.20	4.40				< 0.02													
	7	4.40	4.60	CL				4.50	5.9	3.6	11	4.40	4.60				< 0.02													
	8	4.60	5.20	CS				4.75	6.2	2.8																				
								5.00	6.2	2.6	12	4.80	5.00				0.021													
	9	5.20	5.90	KS				5.25	6.2	3.0																				
								5.50	6.3	3.4	13	5.30	5.50				< 0.02													
								5.75	6.4	5.2																				
	10	5.90	6.10	KS				6.00	6.5	4.9																				
	11	6.10	6.50	CL				6.25	6.1	2.8																				
								6.50	6.1	3.0	16	6.30	6.50				0.036													
	12	6.50	7.05	CLFS				6.75	6.1	3.0																				
								7.00	6.1	3.5																				
	13	7.05	7.50	KSL				7.25	6.1	4.1																				
								7.50	6.1	2.7																				
	14	7.50	8.40	CL				7.75	6.1	3.4																				
								8.00	6.2	3.9	19	7.80	8.00				< 0.02													
								8.25	6.2	4.3																				
								8.40	6.2	4.3																				
210	1	0.00	0.30	LS				0.10	6.4	3.5																				
								0.30	5.9	2.6																				
	2	0.30	0.65	CL				0.60	5.5	3.4	2	0.40	0.60				< 0.02													
	3	0.65	1.00	LS				0.80	6.0	3.3																				
								1.00	6.3	5.1																				
	4	1.00	1.40	CL				1.25	6.2	3.1	4	1.10	1.30				< 0.02													
	5	1.40	1.70	KS				1.50	6.6	5.1																				
	6	1.70	2.75	KS				1.75	6.8	5.2																				
								2.00	6.9	5.4	6	1.80	2.00				< 0.02													
								2.25	6.9	5.3																				
								2.50	6.9	4.7																				
								2.75	6.9	5.4																				
	7	2.75	4.90	S				3.00	6.9	5.0																				
								3.25	6.7	4.4																				
								3.50	6.8	5.0																				
								3.75	6.9	5.7																				
								4.00	6.9	5.7	10	3.80	4.00				< 0.02													
								4.25	7.0	5.8																				
								4.50	7.3	6.3																				
								4.75	7.3	7.4																				
	8	4.90	6.00	KS				5.00	7.0	1.4																				
								5.25	7.0	2.2																				
								5.50	7.0	3.6	13	5.30	5.50				< 0.02													
								5.75	7.1	4.3																				
								6.00	7.1	4.2																				
	9	6.00	7.00	KS				6.25	7.0	4.2																				
								6.50	7.0	5.0																				
								6.75	7.3	5.2	15	6.50	7.00				< 0.02													
								7.00	7.2	4.3																				
	10	7.00	12.00	KS				7.25	6.8	2.1																				
								7.50	6.8	2.2	16	7.30	7.50	S7	Ps		0.126													
								7.75	6.9	2.0																				
								8.00	6.9	1.9																				
								8.25	6.8	1.6																				
								8.50	7.1	2.0																				
								8.75	7.0	2.0																				
								9.00	7.0	1.6																				
								9.25	6.9	1.7																				
								9.50	7.0	1.9	20	9.30	9.50		Ps		0.194													
								9.75	6.6	2.1																				
								10.00	7.0	1.9																				
								10.25	7.4	2.1																				
								10.50	7.6	2.1																				
								10.75	7.0	1.6																				
								11.00	7.2	1.5																				
								11.20	7.4	1.4																				
								11.25	6.9	1.4																				
								11.50	7.3	1.9																				
								11.75	7.2	1.6	25	11.60	11.80		Ps		0.719													
								12.00	7.5	1.5																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t					%S		%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
211	1	0.00	0.10	CLS				0.10	5.9	3.1																				
	2	0.10	0.40	CLS				0.30	5.6	4.4																				
	3	0.40	1.50	CL				0.60	6.1	6.1																				
								0.80	6.2	6.4																				
								1.00	6.2	5.9																				
								1.25	6.2	6.3																				
								1.50	6.1	6.0	4	1.30	1.50				< 0.02													
	4	1.50	2.70	CL				1.75	6.0	6.0																				
								2.00	5.9	5.5																				
								2.25	5.9	5.9																				
								2.50	5.9	6.1																				
	5	2.70	3.50	CL				2.75	5.8	5.8																				
								3.00	5.9	4.8																				
								3.25	6.0	5.3																				
								3.50	5.7	5.4	8	3.30	3.50				< 0.02													
	6	3.50	4.10	CL				3.75	5.8	5.2																				
								4.00	5.6	4.7																				
	7	4.10	4.50	CL				4.25	5.7	4.5																				
								4.50	5.9	4.1																				
	8	4.50	4.90	CLS				4.75	6.0	4.2	11	4.70	4.90				< 0.02													
	9	4.90	5.70	CLS				5.00	6.1	4.1																				
								5.25	6.2	5.6																				
								5.50	6.3	6.0																				
	10	5.70	7.30	CLS				5.75	6.5	6.5																				
								6.00	6.7	4.4																				
								6.25	6.8	4.2																				
								6.50	6.7	4.3	14	6.30	6.50				< 0.02													
								6.75	6.6	4.4																				
								7.00	6.7	4.5																				
								7.25	6.3	4.5																				
	11	7.30	7.90	FSCL				7.50	6.2	5.5																				
								7.75	6.2	7.2																				
	12	7.90	9.00	FSCL				8.00	6.4	4.8																				
								8.25	6.4	4.7																				
								8.50	6.5	4.5	18	8.30	8.50				< 0.02													
								8.75	6.3	4.5																				
								9.00	5.7	5.0																				
	13	9.00	10.60	CKS				9.25	5.8	7.3																				
								9.50	6.3	7.5																				
								9.75	6.5	7.6																				
								10.00	6.1	7.3																				
								10.25	6.0	7.2																				
								10.50	6.1	6.3	22	10.30	10.50				< 0.02													
	14	10.60	10.80	SCL				10.75	5.6	5.8																				
	15	10.80	11.20	CKS				11.00	6.1	5.8																				
	16	11.20	11.70	FSCL				11.25	6.3	5.6																				
								11.50	5.4	4.5																				
	17	11.70	12.00	CLS				11.75	6.4	6.7																				
								12.00	6.2	5.5	26	11.80	12.00				< 0.02													
	18	12.00	12.40	CS				12.25	6.8	5.8																				
	19	12.40	13.20	CKS				12.50	6.8	5.4																				
								12.75	6.8	5.3																				
								13.00	6.6	5.5																				
								13.20	6.7	5.1	28	13.00	13.20				< 0.02													
212	1	0.00	0.10	CL				0.10	5.7	4.3																				
	2	0.10	1.60	CL				0.30	5.9	6.2																				
								0.60	6.0	6.5																				
								0.80	6.0	6.6																				
								1.00	5.7	4.4																				
								1.25	5.9	3.2																				
								1.50	6.0	4.6	4	1.30	1.50				< 0.02													
	3	1.60	2.40	CL				1.75	5.6	6.0																				
								2.00	5.4	5.7																				
								2.25	5.7	6.7																				
	4	2.40	2.80	KSL				2.50	6.6	4.0																				
											6	2.50	2.70				< 0.02													
								2.75	5.9	6.1																				
	5	2.80	3.15	CL				3.00	5.8	7.4																				
	6	3.15	3.50	CL				3.25	5.9	5.5																				
								3.50	5.8	7.4																				
	7	3.50	4.10	LC				3.75	6.0	4.5																				
								4.00	5.9	5.9	9	3.80	4.00				< 0.02													
	8	4.10	4.70	CLFS				4.25	6.1	4.7																				
								4.50	6.3	4.7																				
	9	4.70	6.00	FSLC				4.75	6.5	3.8																				
								5.00	6.6	1.3																				
								5.25	6.6	2.8																				
								5.50	6.7	1.0	12	5.30	5.50	S5	Pc		2.364													
								5.75	6.9	1.6																				
								6.00	7.1	1.8																				
213	1	0.00	0.25	CLFS				0.10	5.3	2.7																				
	2	0.25	0.50	S				0.30	5.9	2.9																				
								0.50	6.3	3.2																				
	3	0.50	0.75	CLFS				0.60	5.8	3.5																				
											3	0.60	0.75				< 0.02													
	4	0.75	1.00	SCL				0.80	5.1	5.8																				
								1.00	6.4	5.0																				
	5	1.00	2.00	CL				1.25	6.3	2.9																				
								1.50	6.8	6.1																				
								1.75	6.8	4.8																				
								2.00	7.2	4.8	6	1.80	2.00				< 0.02													
	6	2.00	2.35	SL				2.25	7.0	7.0																				
	7	2.35	3.00	LS				2.50	7.1	7.2																				
								2.75	6.8	5.4																				
								3.00	6.6	7.1																				
	8	3.00	3.25	CLFS				3.25	6.8	4.6																				
	9	3.25	4.10	CS				3.50	6.8	4.1																				
								3.75	6.3	4.0	11	3.70	3.90				< 0.02													
								4.00	6.4	4.8																				
	10	4.10	4.85	S				4.25	6.5	3.1	12	4.10	4.25				< 0.02													
								4.50	6.1	2.8																				
								4.75	5.8	3.4	13	4.60	4.80				< 0.02													
	11	4.85	5.50	KS				5.00	6.2	2.1																				
								5.25	6.5	6.9																				
								5.50	6.5	6.7	14	5.30	5.50				< 0.02													
	12	5.50	6.00	KS				5.75	6.8	5.4																				
								6.00	6.7	4.7																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
								Field pH									Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0 %S	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)	23Af	23Bf		(m)				s-ANC_E s-Ca+s-Mg	%S 22B	23Ee	mol H+/t 23H	23G	mol H+/t a-23Re	a-20J	23F	23A	23B	23Ce	%S s-23Xh+s-23Um	%S s-19A2	%S s-23Q
214	1	0.00	0.25	LS				0.10	5.0	2.4																				
	2	0.25	0.85	LFS				0.30	4.9	2.8																				
								0.60	5.7	3.5																				
								0.80	5.6	3.2	2	0.60	0.80				< 0.02													
	3	0.85	1.60	CLFS				1.00	5.6	3.1																				
								1.25	5.6	4.3																				
								1.50	5.7	5.4																				
	4	1.60	2.50	SCL				1.75	6.7	6.8																				
								2.00	6.2	4.8																				
								2.25	6.1	4.5																				
								2.50	6.2	6.7	5	2.30	2.50				< 0.02													
	5	2.50	2.95	SCL				2.75	5.9	4.7																				
	6	2.95	4.05	LS				3.00	6.1	6.4																				
								3.25	6.2	4.8																				
								3.50	6.1	5.3																				
								3.75	6.2	5.5																				
								4.00	6.4	4.9																				
	7	4.05	4.75	CL				4.25	6.4	6.8																				
								4.50	6.4	4.7																				
								4.75	6.1	4.6																				
	8	4.75	5.35	FSL				5.00	6.4	4.8	10	4.80	5.00				< 0.02													
								5.25	6.0	4.9																				
	9	5.35	5.75	CLFS				5.50	6.2	4.5																				
								5.75	6.3	5.0																				
	10	5.75	6.20	S				6.00	6.7	5.0	12	5.80	6.00				< 0.02													
	11	6.20	7.30	FSCL				6.25	6.3	4.8																				
								6.50	6.3	4.7																				
								6.75	6.0	4.8																				
								7.00	5.7	4.0	14	6.80	7.00				< 0.02													
								7.25	6.0	3.6																				
	12	7.30	8.20	S				7.50	6.1	1.6	15	7.30	7.50				< 0.02													
								7.75	6.4	1.8																				
								8.00	6.5	1.7	16	7.80	8.00	S8	Ps		0.264													
	13	8.20	9.00	FSCL				8.25	6.4	1.2																				
								8.50	5.8	1.0	17	8.30	8.50		Pl		0.562													
								8.75	6.5	1.0																				
								9.00	6.7	0.9																				
	14	9.00	9.20	S				9.20	6.5	1.1																				
	15	9.20	9.60	FSCL				9.50	6.8	0.7	20	9.40	9.60		Pl		1.458													
215	1	0.00	0.10	SCL				0.10	6.4	1.9																				
	2	0.10	0.75	ZCL				0.30	6.4	2.4																				
								0.60	6.2	2.6																				
	3	0.75	1.15	CS				0.80	6.1	2.8																				
								1.00	6.1	2.8																				
	4	1.15	1.80	ZL				1.25	6.3	0.9																				
								1.50	6.1	0.9																				
								1.75	5.7	0.9																				
	5	1.80	2.00	S				2.00	5.7	1.0																				
	6	2.00	2.40	ZL				2.25	5.4	0.9																				
								2.40	5.9	0.8																				
216	1	0.00	0.70	ZCL				0.10	5.8	5.6																				
								0.30	6.1	5.3																				
								0.60	5.5	5.2																				
	2	0.70	1.40	LS				0.80	7.4	7.1																				
								1.00	7.3	6.1																				
								1.25	7.2	5.7																				
	3	1.40	1.85	CS				1.50	7.0	5.7																				
								1.75	7.4	5.6																				
	4	1.85	2.65	SL				2.00	7.0	5.8																				
								2.25	7.3	6.3																				
								2.50	7.3	6.2																				
	5	2.65	2.90	SL				2.75	6.9	4.8																				
	6	2.90	3.00	CS				3.00	6.9	4.3																				
217	1	0.00	0.35	SCL				0.10	3.8	1.4																				
								0.30	4.1	2.1																				
	2	0.35	0.50	CS																										
	3	0.50	0.90	KS				0.60	5.2	4.1																				
								0.80	5.4	3.9																				
	4	0.90	1.50	KS				1.00	5.3	4.1																				
								1.25	4.8	3.4																				
								1.50	4.8	4.0	4	1.30	1.50				< 0.02													
	5	1.50	1.90	CS				1.75	4.8	4.4																				
	6	1.90	2.20	FSL				2.00	4.4	3.8																				
											6	2.00	2.20				< 0.02													
	7	2.20	2.30	FSCL				2.25	3.5	0.9	7	2.20	2.30	S3	Pl		0.088						56	4.0		0.01				
	8	2.30	2.50	CLS				2.50	3.5	1.0	8	2.30	2.50		Pl		0.956						84	3.9		0.03				
	9	2.50	3.45	CKS				2.75	3.7	2.0																				
								3.00	3.7	1.6	9	2.80	3.00				< 0.02													
								3.25	3.7	2.5																				
	10	3.45	4.20	CKS				3.50	3.8	2.7																				
								3.75	4.3	2.4																				
								4.00	4.5	3.0																				
	11	4.20	4.80	KS				4.25	4.4	3.3																				
								4.50	4.5	3.5																				
											12	4.50	4.70				< 0.02													
								4.75	4.7	4.8																				
	12	4.80	5.90	KS				5.00	5.3	4.9																				
								5.25	5.6	4.9																				
								5.50	5.5	4.9	14	5.30	5.50				< 0.02													
								5.75	5.5	0.7																				
	13	5.90	7.20	KS				6.00	5.7	0.7																				
								6.50	5.6	0.3	16	6.30	6.80		Ps		0.164													
								7.00	6.0	0.3																				
218	1	0.00	0.30	CLS				0.10	4.1	2.1	1	0.00	0.10				< 0.02						39	4.5		0.01				
								0.30	3.3	2.0																				
	2	0.30	0.50	SLC				0.40	2.7	1.2	2	0.30	0.50				0.022						53	4.3		0.03				
	3	0.50	0.80	SCL	J			0.60	2.4	0.0																				
								0.80	5.1	0.1	3	0.60	0.80	S0	Pl		2.36						143	3.5		0.19				
	4	0.80	1.40	SCL				1.00	5.6	0.1																				
								1.25	5.8	0.1	4	1.10	1.30		Pl		2.657													
	5	1.40	2.80	CKS				1.50	6.0	0.0																				
								1.75	5.9	0.1	5	1.50	1.80		Ps		0.737													
								2.00	6.0	0.2																				
								2.25	6.0	0.3																				
								2.50	6.0	0.3																				
								2.75	6.1	0.3	7	2.50	2.80		Ps		0.811													
	6	2.80	3.00	LS				3.00	5.7	0.2																				
	7	3.00	3.60	KS				3.25	5.7	0.2																				
								3.50	6.1	0.0																				
	8	3.60	4.80	KS				3.75	6.0	0.2																				
								4.00	6.2	0.4																				
								4.25	6.2	0.4																				
								4.50	6.0	0.3																				
								4.75	6.1	0.1																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
219	1	0.00	0.40	CL				0.10	5.3	2.6																				
								0.30	5.2	2.8																				
	2	0.40	0.55	LC				0.50	4.6	2.6																				
	3	0.55	1.10	LC				0.60	4.6	3.0																				
								0.80	4.2	2.9																				
								1.00	4.3	3.6	4	0.80	1.00				< 0.02													
	4	1.10	1.50	SLC				1.25	4.5	2.3																				
								1.50	4.2	2.4	5	1.30	1.50				0.026													
	5	1.50	3.40	CL				1.75	4.7	1.3																				
								2.00	5.6	1.2	6	1.80	2.00	S2	Pl		1.75													
								2.25	6.3	1.4																				
								2.50	5.9	1.3																				
								2.75	6.5	1.3																				
								3.00	6.6	1.1	8	2.80	3.00		Pl		1.733													
								3.25	6.6	1.5																				
	6	3.40	4.00	SL				3.50	6.4	1.3	9	3.40	3.60		Pl		0.845													
								3.75	5.7	1.3																				
								4.00	6.1	1.4																				
	7	4.00	4.70	LS				4.25	6.4	1.5																				
								4.50	6.7	1.6																				
	8	4.70	6.00	LS				4.75	6.3	1.7																				
								5.00	6.3	1.8	12	4.80	5.00		Ps		0.19													
								5.25	6.4	1.8																				
								5.50	6.3	1.5																				
								5.75	6.3	1.6																				
								6.00	6.2	1.7																				
220	1	0.00	0.40	SL				0.10	4.7	3.1																				
								0.30	5.1	3.2																				
	2	0.40	1.05	LC				0.60	6.9	4.5																				
								0.80	6.9	5.0	3	0.60	0.80				< 0.02													
								1.00	6.9	4.5																				
	3	1.05	1.50	LC				1.25	7.4	1.9	4	1.10	1.30	S2	Pc		0.541													
								1.50	7.2	1.8																				
	4	1.50	2.80	LC							5	1.50	1.70		Pc		2.46													
								1.75	7.1	1.8																				
								2.00	7.1	2.0																				
								2.25	6.9	1.7																				
								2.50	6.6	1.6																				
								2.75	6.9	1.7																				
	5	2.80	3.75	KS				3.00	6.9	1.6	8	2.90	3.10		Ps		0.544													
								3.25	7.2	1.7																				
								3.50	7.2	1.8																				
								3.75	6.8	1.7																				
	6	3.75	4.55	FS				4.00	6.7	1.6	10	3.80	4.00		Ps		0.599													
								4.25	6.7	2.2																				
								4.50	7.0	1.4																				
	7	4.55	5.35	FSLC				4.75	7.3	1.8																				
								5.00	8.2	1.8																				
								5.25	8.7	2.4																				
	8	5.35	6.00	S				5.50	8.2	1.8																				
								5.75	8.4	1.8																				
								6.00	8.3	1.8																				
221	1	0.00	0.55	LS				0.10	5.9	5.3																				
								0.30	6.2	5.3																				
	2	0.55	0.80	S				0.60	6.2	5.6																				
								0.80	6.3	5.9																				
	3	0.80	1.05	S				1.00	6.4	5.6	4	0.80	1.00				< 0.02													
	4	1.05	1.45	KS				1.25	7.1	6.0																				
	5	1.45	2.20	KS				1.50	7.0	6.1																				
								1.75	7.0	6.1	6	1.60	1.80				< 0.02													
								2.00	7.0	6.1																				
	6	2.20	3.25	S				2.25	6.8	5.3																				
								2.50	6.3	5.9																				
											8	2.50	2.70				< 0.02													
								2.75	6.1	5.9																				
								3.00	6.2	5.4	9	2.90	3.10				< 0.02													
								3.25	6.1	5.7																				
	7	3.25	3.45	KS				3.35	6.9	5.8	10	3.25	3.45				< 0.02													
	8	3.45	3.60	SLC				3.50	6.6	1.7	11	3.45	3.60	S4	Pc		0.275													
	9	3.60	6.00	KS				3.75	6.9	5.8																				
								4.00	6.9	5.7																				
								4.25	6.9	5.7																				
								4.50	6.7	4.9	13	4.30	4.50				< 0.02													
								4.75	6.6	5.9																				
								5.00	6.6	4.8																				
								5.25	6.5	6.0																				
								5.50	6.4	5.8																				
								5.75	6.2	2.0																				
								6.00	6.6	1.8	16	5.80	6.00				< 0.02													
222	1	0.00	0.25	SCL				0.10	5.6	3.1																				
	2	0.25	0.60	CLS				0.30	6.0	4.4																				
								0.60	5.6	4.2	2	0.40	0.60				< 0.02													
	3	0.60	0.90	CLS				0.80	5.6	1.2	3	0.70	0.90	S1	Pl		0.065													
	4	0.90	1.10	SLC				1.00	6.7	1.4	4	0.90	1.10		Pc		1.764													
	5	1.10	1.45	CS				1.25	6.9	1.6	5	1.20	1.40		Ps		0.529													
	6	1.45	2.15	S				1.50	6.9	1.8																				
								1.75	7.2	2.0																				
								2.00	6.9	1.8	6	1.80	2.00		Ps		0.194													
	7	2.15	3.10	KS				2.25	6.9	1.8																				
								2.50	7.3	1.8	7	2.30	2.50		Ps		0.154													
								2.75	7.4	1.9																				
								3.00	7.3	1.8																				
	8	3.10	3.45	SCL				3.25	6.6	2.6																				
											9	3.25	3.45		Pl		0.406													
	9	3.45	4.40	LS				3.50	6.8	1.6																				
								3.75	6.8	1.7																				
								4.00	6.7	1.5																				
								4.25	7.0	2.0																				
	10	4.40	4.80	S				4.50	7.4	1.5																				
								4.75	7.3	1.6	12	4.60	4.80		Ps		0.058													
223	1	0.00	0.35	CLS				0.10	5.2	2.3																				
								0.30	6.9	5.0																				
	2	0.35	0.90	CLS				0.60	7.7	5.7	2	0.50	0.60				< 0.02													
								0.80	7.2	5.3	3	0.70	0.90				< 0.02													
	3	0.90	1.60	LKS				1.00	6.9	5.2																				
								1.25	7.0	5.8																				
								1.50	7.5	1.7	4	1.20	1.50	S1	Ps		0.042													
	4	1.60	2.10	LS				1.75	7.5	1.2																				
								2.00	7.5	1.5	5	1.80	2.00		Ps		0.542													
	5	2.10	2.85	KS				2.25	7.5	1.6																				
								2.50	7.4	1.2	6	2.30	2.50		Ps		0.213													
								2.75	7.5	1.6																				
	6	2.85	4.05	FSL			SS	3.00	7.0	1.8	7	2.85	3.05		Pl		0.358													
								3.25	7.4	2.8																				
								3.50	7.6	1.9																				
								3.75	7.6	3.4																				
								4.00	8.0	6.6	9	3.80	4.00		Pl		0.21												1.06	
	7	4.05	5.50	LC			SS	4.25	8.3	6.6																				
								4.50	8.4	6.6																				
								4.75	8.7	6.7																				
								5.00	8.8	5.9	11	4.80	5.00		Pc		0.826												1.51	
								5.25	8.6	5.6																				
								5.50	8.5	1.8																				
	8	5.50	6.00	FSL			SS	5.75	8.3	6.5																				
								6.00	8.4	6.4																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)	23Af	23Bf		(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
																s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
224	1	0.00	0.25	FS				0.10	5.6	4.5																					
	2	0.25	0.55	FS				0.30	5.6	5.1																					
	3	0.55	0.90	S				0.60	5.7	5.7																					
								0.80	6.3	5.6																					
	4	0.90	2.10	S				1.00	6.0	5.7																					
								1.25	5.8	5.8																					
								1.50	5.9	5.7																					
								1.75	6.1	5.7																					
								2.00	6.4	5.9																					
	5	2.10	2.70	S				2.25	6.0	5.9																					
								2.50	6.0	5.2																					
											7	2.50	2.70					< 0.02													
	6	2.70	3.30	S				2.75	5.8	5.7																					
								3.00	6.4	6.0																					
								3.25	6.1	5.9																					
	7	3.30	3.60	KS				3.50	6.3	5.7	9	3.40	3.60					< 0.02													
	8	3.60	4.60	S				3.75	6.0	5.4																					
								4.00	5.9	5.3																					
								4.25	5.9	4.8																					
								4.50	6.0	5.7																					
	9	4.60	5.05	S				4.75	6.4	5.1																					
								5.00	6.6	3.4	12	4.80	5.00					< 0.02													
	10	5.05	7.20	LFS				5.25	6.7	1.6																					
								5.50	6.5	2.1	13	5.30	5.50	S6	Ps			0.071													
								5.75	6.8	2.6																					
								6.00	6.7	2.1	14	5.80	6.00		Ps			0.072													
								6.25	6.8	2.6																					
								6.50	6.9	1.8																					
								6.75	6.9	1.7																					
								7.00	6.6	1.7	16	6.80	7.00		Ps			0.044													
								7.20	6.4	2.0																					
225	1	0.00	0.35	CLS				0.10	4.2	2.4																					
								0.30	4.0	3.0	2	0.20	0.35					< 0.02						32	4.3		0.02				
	2	0.35	0.60	LFS				0.60	4.0	2.5	3	0.40	0.60					< 0.02						19	4.4		0.02				
	3	0.60	1.00	LFS				0.80	4.6	3.3																					
								1.00	4.9	3.7	4	0.80	1.00					< 0.02													
	4	1.00	1.45	LC				1.25	5.4	3.2																					
	5	1.45	2.05	LMC				1.50	5.9	3.7																					
								1.75	5.7	3.7	6	1.70	1.90					< 0.02													
								2.00	5.9	4.2																					
	6	2.05	2.55	LC				2.25	5.9	4.4	7	2.10	2.30					< 0.02													
								2.50	6.3	2.4																					
	7	2.55	5.25	CL				2.75	6.7	1.2	8	2.60	2.80	S3	Pl			1.259													
								3.00	7.0	1.2																					
								3.25	7.1	1.2																					
								3.50	7.3	1.2																					
								3.75	7.3	0.8	10	3.60	3.80		Pl			1.713													
								4.00	7.2	0.8																					
								4.25	7.2	1.0																					
								4.50	7.2	0.8																					
								4.75	7.3	0.8																					
								5.00	7.2	0.8																					
								5.25	7.1	1.7																					
	8	5.25	6.00	LC				5.50	7.1	0.9	14	5.30	5.50		Pc			1.952													
								5.75	7.2	0.9																					
								6.00	7.1	1.6																					
226	1	0.00	0.20	SCL				0.10	6.1	2.4	1	0.00	0.20	S0	Pl			0.087													
	2	0.20	0.50	LC				0.30	6.0	4.3																					
											2	0.30	0.50					< 0.02													
	3	0.50	0.90	LMC				0.60	5.4	3.3																					
								0.80	4.5	2.7	3	0.70	0.90					< 0.02													
	4	0.90	1.10	LMC	J			1.00	5.3	2.4	4	0.90	1.10					0.031						27	4.5		0.09				
	5	1.10	1.45	L				1.25	7.0	2.6	5	1.20	1.40		Pl			1.475													
	6	1.45	2.00	S				1.50	7.8	2.0																					
								1.75	7.3	1.8	6	1.70	2.00		Ps			0.712													
								2.00	7.5	1.8																					
	7	2.00	2.40	CKS				2.25	7.8	2.0																					
	8	2.40	2.70	KS				2.50	8.4	1.5																					
	9	2.70	2.95	S				2.75	8.0	6.2	9	2.70	2.90					< 0.02												0.08	
	10	2.95	3.20	CS				3.00	7.5	1.6																					
	11	3.20	3.75	CLS				3.25	7.6	5.6																					
								3.50	7.4	3.1																					
											11	3.50	3.70					0.044													
								3.75	7.1	6.1																					
	12	3.75	4.30	CLS				4.00	7.1	6.3																					
								4.25	7.3	6.3																					
	13	4.30	4.45	GR																											
227	1	0.00	0.20	SCL				0.10	6.9	4.7	1	0.00	0.20					< 0.02													
	2	0.20	0.55	SLC				0.30	7.1	6.6																					
											2	0.30	0.50					< 0.02													
	3	0.55	1.10	SLMC				0.60	7.1	5.5																					
								0.80	7.0	1.7	3	0.70	0.90	S1	Pc			0.125													
								1.00	6.9	1.8																					
	4	1.10	1.75	CKS				1.25	7.3	1.6	4	1.20	1.40		Ps			0.802													
								1.50	7.4	1.4																					
								1.75	7.5	1.7																					
	5	1.75	2.00	SLC				2.00	7.4	1.3	6	1.80	2.00		Pc			0.906													
	6	2.00	4.30	KS				2.25	7.2	1.8																					
								2.50	6.8	2.0																					
								2.75	6.9	2.0	7	2.50	2.80		Ps			0.289													
								3.00	6.9	1.9																					
								3.25	7.1	2.1																					
								3.50	6.3	1.9																					
								3.75	6.5	1.8																					
								4.00	6.8	1.6																					
								4.25	6.9	1.4	10	4.10	4.30		Ps			0.687													
	7	4.30	4.55	FSLC				4.50	6.5	2.9																					
	8	4.55	5.45	FSLMC				4.75	6.6	6.0	12	4.60	4.80					< 0.02													
								5.00	6.1	6.1																					
								5.25	6.4	5.8																					
	9	5.45	5.90	KSMC				5.50	6.6	5.6																					
								5.75	6.6	6.0																					
	10	5.90	6.00	LFS				6.00	6.5	5.9																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH										Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
228	1	0.00	0.10	CL				0.10	4.9	2.5																					
	2	0.10	0.90	CL				0.30	4.7	2.8																					
											2	0.30	0.50					< 0.02													
								0.60	5.1	3.0																					
								0.80	6.1	3.7																					
	3	0.90	1.35	LMC				1.00	5.9	3.7																					
											4	1.00	1.20					< 0.02													
								1.25	6.2	4.0																					
	4	1.35	1.70	MC				1.50	6.1	4.1																					
	5	1.70	2.05	FSLMC				1.75	6.8	4.8																					
								2.00	6.9	3.8	6	1.80	2.00					0.021													
	6	2.05	2.40	CKS				2.25	7.0	2.0	7	2.20	2.40	S3	Ps			0.031													
	7	2.40	2.75	KSCL				2.50	7.2	1.5																					
											8	2.50	2.70		Pl			1.14													
								2.75	6.9	1.4																					
	8	2.75	4.20	ZCL				3.00	7.0	1.5																					
								3.25	7.1	1.8																					
								3.50	7.1	1.5	10	3.30	3.50		Pl			2.861													
								3.75	7.1	1.8																					
								4.00	7.0	2.4																					
	9	4.20	6.00	LC				4.25	7.1	1.4																					
								4.50	7.3	1.5																					
								4.75	7.2	1.3	13	4.60	4.80		Pc			2.101													
								5.00	7.2	1.3																					
								5.25	7.6	1.0																					
								5.50	7.5	1.0																					
								5.75	7.9	0.9																					
								6.00	7.4	0.9																					
229	1	0.00	0.10	CL				0.10	5.0	2.9																					
	2	0.10	0.65	CL				0.30	5.5	3.2																					
								0.60	6.1	4.6																					
	3	0.65	1.50	CL				0.80	6.0	4.3																					
								1.00	6.0	5.0	3	0.80	1.00					< 0.02													
								1.25	5.8	3.8																					
								1.50	5.6	3.3																					
	4	1.50	3.10	CL				1.75	5.4	3.1																					
								2.00	4.6	3.0																					
								2.25	4.5	3.0																					
								2.50	4.7	3.3	6	2.30	2.50					< 0.02													
								2.75	4.6	3.5																					
	5	3.10	3.60	LC				3.25	5.0	3.2																					
								3.50	5.1	2.9																					
	6	3.60	4.00	KSLC				3.75	4.9	2.5																					
								4.00	5.5	3.3	9	3.80	4.00					< 0.02													
	7	4.00	4.35	FSCL				4.25	5.6	2.0	10	4.10	4.30					< 0.02													
	8	4.35	5.75	FSLC				4.50	5.9	1.4	11	4.40	4.60	S5	Pc			1.152													
								4.75	6.4	1.3																					
								5.00	6.5	1.3																					
								5.25	7.0	1.5																					
								5.50	6.6	1.7																					
								5.75	6.9	1.3																					
	9	5.75	6.00	CKS				6.00	7.4	1.3																					
	10	6.00	6.25	CS							17	6.00	6.20		Ps			0.559													
								6.25	6.7	1.4																					
	11	6.25	7.20	KS				6.50	6.9	1.4																					
								6.75	6.6	1.5																					
								7.00	7.3	1.6																					
	12	7.20	8.00	CLS				7.25	7.1	1.3																					
								7.50	6.6	2.2																					
								7.75	6.7	1.3																					
								8.00	6.7	1.2																					
	13	8.00	8.40	CL				8.25	6.6	1.1	22	8.20	8.40		Pl			2.313													
230	1	0.00	0.10	SL				0.10	6.6	4.6																					
	2	0.10	0.65	SCL				0.30	6.1	4.9																					
								0.60	6.5	6.2																					
	3	0.65	1.45	CL				0.80	6.0	4.8																					
								1.25	5.9	5.1																					
	4	1.45	1.90	FSCL				1.50	3.9	1.6																					
								1.75	6.3	2.1	5	1.70	1.90	S2	Pl			0.53													
	5	1.90	2.50	LC				2.00	7.5	2.7	6	1.90	2.10		Pc			0.575													
								2.25	7.3	2.3																					
								2.50	7.1	3.0																					
	6	2.50	2.75	CL				2.75	7.3	2.7	8	2.50	2.75		Pl			0.438													
	7	2.75	3.10	CL				3.00	6.8	2.0																					
	8	3.10	3.60	FSCL				3.25	6.7	1.6																					
								3.50	6.7	1.4	10	3.30	3.50		Pl			1.898													
	9	3.60	4.05	S				3.75	7.5	1.8																					
								4.00	7.6	2.1																					
	10	4.05	4.80	FSL				4.25	7.8	1.6																					
								4.50	7.5	1.5																					
								4.75	7.1	1.1																					
231	1	0.00	0.25	LS				0.10	5.7	4.2																					
	2	0.25	2.00	S				0.30	5.9	5.9																					
								0.60	6.2	5.8																					
								0.80	6.0	6.0																					
								1.00	5.9	5.7																					
								1.25	6.0	4.6																					
								1.50	5.7	5.4																					
								1.75	5.5	5.3																					
								2.00	5.6	5.2																					
	3	2.00	2.30	KS				2.25	5.7	5.5																					
	4	2.30	2.60	KS				2.50	5.5	5.8																					
	5	2.60	3.70	S				2.75	5.7	5.7																					
								3.00	5.7	6.8	8	2.80	3.00					< 0.02													
								3.25	5.7	5.8																					
								3.50	6.0	6.6																					
	6	3.70	4.00	LS				3.75	6.1	8.7																					
								4.00	5.8	6.8																					
	7	4.00	4.30	FS				4.25	6.1	7.1	11	4.10	4.30					< 0.02													
	8	4.30	5.25	CFS				4.50	6.1	8.1																					
								4.75	6.3	6.4																					
								5.00	6.0	6.2																					
								5.25	6.7	6.1																					
	9	5.25	5.55	CKS				5.50	6.4	8.0	14	5.30	5.50					< 0.02													
	10	5.55	6.25	LC				5.75	5.9	7.7																					
								6.00	6.7	5.8																					
								6.25	6.4	3.4																					
	11	6.25	7.55	LC				6.50	6.5	5.5																					
								6.75	6.6	7.0																					
								7.00	6.6	5.5																					
								7.25	6.6	5.5																					
								7.50	6.4	6.6																					
	12	7.55	8.40	MC				7.75	6.5	5.4																					
								8.00	6.6	6.8																					
								8.25	6.7	6.9																					
								8.40	6.6	6.7																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)			%S	%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf					s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
232	1	0.00	0.30	SL				0.10	5.8	3.7																				
								0.30	6.1	3.9																				
	2	0.30	1.00	S				0.60	6.2	5.7																				
								0.80	6.2	6.0																				
								1.00	6.1	6.1																				
	3	1.00	1.90	S				1.25	6.3	6.2																				
								1.50	6.2	5.7	4	1.30	1.50				< 0.02													
								1.75	6.3	6.0																				
	4	1.90	3.05	S				2.00	6.1	5.7																				
								2.25	6.1	6.1																				
								2.50	6.2	6.0	7	2.30	2.50				< 0.02													
								2.75	6.0	6.0																				
								3.00	6.3	5.8																				
	5	3.05	4.05	CFS				3.25	6.5	5.8																				
								3.50	6.3	5.9																				
								3.75	6.1	5.9																				
								4.00	6.6	5.9																				
	6	4.05	4.30	CKS				4.25	6.3	5.9	11	4.10	4.30				< 0.02													
	7	4.30	4.60	FSLC				4.50	6.7	5.6																				
								4.60	6.7	5.7																				
233	1	0.00	0.15	CL				0.10	5.6	5.2																				
	2	0.15	1.30	CLS				0.30	6.0	4.6																				
								0.60	5.8	4.3																				
								0.80	5.8	4.3																				
								1.00	5.1	4.1																				
								1.25	4.8	5.1																				
	3	1.30	1.50	SCL				1.50	5.1	4.1	4	1.30	1.50				< 0.02													
	4	1.50	1.75	CS							5	1.50	1.70				< 0.02													
								1.75	5.6	4.9																				
	5	1.75	2.05	CLS				2.00	6.3	5.3	6	1.80	2.00				< 0.02													
	6	2.05	2.40	SCL				2.25	6.5	5.8	7	2.20	2.40				< 0.02													
	7	2.40	2.60	CS				2.50	6.3	5.2	8	2.40	2.60				< 0.02													
	8	2.60	3.30	KSHC				2.75	6.5	5.6																				
								3.00	6.5	5.4																				
								3.25	6.6	5.6																				
234	1	0.00	0.20	CS				0.10	6.8	3.4	1	0.00	0.20	S0	Ps		0.159													
	2	0.20	1.00	SCL				0.30	6.8	1.1																				
								0.60	6.7	0.9	2	0.50	0.70		Pl		3.125													
								0.80	6.8	1.0																				
								1.00	6.9	0.9	3	0.80	1.00		Pl		1.397													
	3	1.00	1.40	SCL				1.25	6.7	0.9																				
								1.40	6.8	0.9	4	1.20	1.40		Pl		0.993													
235	1	0.00	0.20	CLFS				0.10	4.6	3.3	1	0.00	0.20				< 0.02													
	2	0.20	0.40	CLFS				0.30	5.6	4.0	2	0.20	0.40				0.021													
	3	0.40	0.85	SCL				0.60	6.9	4.2																				
								0.80	6.9	1.4	3	0.60	0.80	S0	Pl		0.604													
	4	0.85	1.80	CL				1.00	6.9	1.3																				
								1.25	6.9	1.3	4	1.10	1.30		Pl		2.172													
								1.50	6.7	1.4																				
								1.75	6.8	1.4	5	1.60	1.80		Pl		1.808													
	5	1.80	2.25	LC				2.00	6.8	1.7																				
											6	2.00	2.20		Pc		4.175													
								2.25	7.0	1.8																				
	6	2.25	3.10	LC				2.50	7.8	2.9																				
								2.75	7.9	2.3																				
								3.00	7.9	5.2																				
	7	3.10	3.80	LMC				3.25	7.4	3.5																				
								3.50	7.2	6.2	9	3.30	3.50				< 0.02													
								3.75	6.9	2.5																				
	8	3.80	4.30	LFS				4.00	6.8	4.3																				
								4.25	6.2	6.1																				
	9	4.30	4.60	LFS				4.50	6.4	5.9																				
	10	4.60	4.80	CFS				4.75	6.4	6.0																				
	11	4.80	5.40	CFS				5.00	6.4	5.9																				
											13	5.00	5.20				< 0.02													
								5.25	6.3	0.8																				
	12	5.40	5.80	S				5.50	6.2	6.4																				
								5.75	6.4	6.2																				
	13	5.80	6.00	CKS				6.00	6.2	5.8																				
236	1	0.00	0.10	CL				0.10	5.7	3.7																				
	2	0.10	0.60	CLFS				0.30	5.4	4.5																				
								0.60	4.8	4.1																				
	3	0.60	1.15	FSCL				0.80	4.7	4.3																				
								1.00	4.5	4.0																				
	4	1.15	2.25	CLFS				1.25	4.8	4.6																				
								1.50	6.1	4.6	4	1.30	1.50				< 0.02													
								1.75	6.5	4.7																				
								2.00	6.7	4.4																				
								2.25	6.5	6.0																				
	5	2.25	3.95	S				2.50	6.1	6.2	6	2.30	2.50				< 0.02													
								2.75	6.0	6.0																				
								3.00	5.8	6.0																				
								3.25	6.0	5.8																				
								3.50	6.1	5.5																				
								3.75	5.8	6.1																				
	6	3.95	4.45	S				4.00	6.1	5.8																				
								4.25	6.0	6.1	10	4.20	4.40				< 0.02													
	7	4.45	4.70	CS				4.50	5.8	5.9																				
	8	4.70	4.90	SCL				4.75	6.2	6.0																				
237	1	0.00	0.20	SCL				0.10	6.4	4.5																				
	2	0.20	0.75	SCL				0.30	5.9	3.9																				
								0.60	5.8	4.4																				
	3	0.75	1.05	S				0.80	6.1	4.2																				
								1.00	6.2	4.9																				
	4	1.05	1.15	S				1.15	5.5	3.3																				
	5	1.15	1.35	S				1.25	6.2	5.2																				
	6	1.35	1.80	S				1.50	5.2	5.4																				
								1.75	6.2	5.7																				
	7	1.80	2.30	S				2.00	6.5	5.9																				
											7	2.00	2.20				< 0.02													
								2.25	6.7	6.1																				
	8	2.30	2.60	S				2.50	6.4	5.7																				
	9	2.60	3.40	KS				2.75	6.5	5.8																				
								3.00	6.6	6.0	9	2.90	3.10				< 0.02													
								3.25	6.6	6.1																				
	10	3.40	3.90	S				3.50	6.4	2.0																				
											10	3.50	3.70	S4	Ps		0.142													
								3.75	6.4	1.9																				
	11	3.90	4.40	S				4.00	6.1	5.8																				
											11	4.00	4.20				< 0.02													
								4.25	6.3	6.3																				
	12	4.40	5.15	FS				4.50	6.6	6.0																				
								4.75	6.0	5.9																				
								5.00	6.7	4.7																				
	13	5.15	5.80	FS				5.25	6.8	2.2																				
								5.50	6.8	1.8																				
								5.75	7.3	1.5	15	5.60	5.80		Ps		0.047													
	14	5.80	6.20	FS				6.00	8.6	2.3																				
	15	6.20	6.90	FSCL				6.25	8.9	5.9																				
								6.50	9.2	6.0																				
								6.75	8.9	5.8																				
	16	6.90	7.20	FSHC			SS	7.00	9.3	8.5																				
								7.20	9.1	8.5	18	7.00	7.20				< 0.02													

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
									Field pH								Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 / TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
238	1	0.00	0.30	FSCL				0.10	4.8	3.9																				
								0.30	5.8	3.9																				
	2	0.30	1.00	SCL				0.60	6.0	4.2																				
								0.80	5.6	4.1																				
								1.00	5.0	3.9																				
	3	1.00	1.30	CLFS				1.25	6.4	5.9																				
	4	1.30	1.55	S				1.50	6.6	6.1																				
	5	1.55	1.80	S				1.75	6.9	6.3																				
	6	1.80	2.35	S				2.00	7.1	6.3																				
								2.25	7.0	6.2	7	2.10	2.30				< 0.02													
	7	2.35	2.65	FS				2.50	7.0	5.4	8	2.40	2.60				< 0.02													
	8	2.65	3.40	FS				2.75	6.9	6.2																				
								3.00	6.9	6.1	9	2.80	3.00				< 0.02													
								3.25	7.5	3.0	10	3.20	3.40				0.023													
	9	3.40	4.10	FSCL				3.50	7.6	2.2																				
								3.75	7.7	5.6	11	3.70	3.90	S4	Pl		0.901													
								4.00	7.7	1.7																				
	10	4.10	4.95	CFS				4.25	7.4	1.4	12	4.10	4.30		Ps		0.7													
								4.50	7.4	1.8																				
								4.75	7.5	1.4																				
	11	4.95	5.50	LMC				5.00	7.5	3.7																				
								5.25	7.3	2.2																				
								5.50	6.6	4.5																				
	12	5.50	5.75	SCL				5.75	6.4	5.1																				
	13	5.75	6.00	CLS				6.00	6.3	5.0																				
239	1	0.00	0.40	CL				0.10	5.9	3.1																				
								0.30	6.2	3.6																				
	2	0.40	1.00	SCL				0.60	5.8	4.6																				
								0.80	5.9	4.8																				
								1.00	5.6	4.6																				
	3	1.00	1.40	FSL				1.25	6.0	5.0																				
	4	1.40	2.10	CLFS				1.50	6.5	4.6																				
								1.75	6.4	4.3	5	1.70	1.90				< 0.02													
								2.00	5.8	3.8																				
	5	2.10	2.40	CLFS				2.25	6.1	3.5	6	2.20	2.40				< 0.02													
	6	2.40	2.60	FSLC				2.50	6.2	2.9	7	2.40	2.60				< 0.02													
	7	2.60	3.15	KS				2.75	6.4	5.7																				
								3.00	6.4	5.9																				
	8	3.15	3.75	KS				3.25	6.1	6.1																				
								3.50	6.1	5.9	9	3.30	3.60				< 0.02													
								3.75	6.1	5.0																				
	9	3.75	5.30	CKS				4.00	6.2	1.9	10	3.80	4.10	S4	Ps		0.113													
								4.25	6.5	1.9																				
								4.50	6.5	1.8																				
								4.75	6.6	1.9																				
								5.00	6.6	1.2																				
								5.25	5.7	1.6																				
	10	5.30	5.50	S				5.50	7.7	1.9	13	5.30	5.50		Ps		0.268													
	11	5.50	6.00	LC				5.75	7.2	3.2																				
								6.00	7.1	1.3	14	5.80	6.00		Pc		2.398													
240	1	0.00	0.20	CL				0.10	5.0	2.7																				
	2	0.20	0.50	CL				0.30	5.3	2.7																				
	3	0.50	0.90	FSCL				0.60	5.3	3.7																				
								0.80	5.4	3.7																				
	4	0.90	1.70	FSL				1.00	5.4	4.4																				
								1.25	5.1	3.7																				
								1.50	4.8	3.9																				
											5	1.50	1.70				< 0.02													
	5	1.70	2.60	FSL				1.75	5.1	3.8																				
								2.00	5.1	3.8																				
											6	2.00	2.20				< 0.02													
								2.25	4.7	2.3																				
								2.50	4.8	3.7	7	2.40	2.60				< 0.02													
	6	2.60	3.00	SCL				2.75	4.9	1.6																				
								3.00	4.8	1.4	8	2.80	3.00	S3	Pl		0.853													
	7	3.00	3.90	S				3.25	4.9	1.3																				
								3.50	5.1	1.6	9	3.30	3.60		Ps		0.744													
								3.75	5.1	1.4																				
	8	3.90	4.30	S				4.00	5.1	1.4																				
								4.25	5.2	1.2																				
	9	4.30	4.90	CLS				4.50	6.8	1.5																				
											11	4.50	4.70		Pl		0.711													
								4.75	7.1	1.4																				
	10	4.90	5.15	HP				5.00	7.5	1.1																				
	11	5.15	6.00	CKS			SS	5.25	7.6	1.5																				
								5.50	7.7	1.5	13	5.30	5.50		Ps		0.797													
								5.75	7.4	1.4																				
								6.00	7.5	2.0																				
241	1	0.00	0.30	CL				0.10	4.5	2.7	1	0.00	0.20				< 0.02													
								0.30	4.3	2.7																				
	2	0.30	0.95	LMC				0.60	4.1	2.8	2	0.50	0.70				< 0.02													
								0.80	4.0	2.1																				
	3	0.95	3.00	LC				1.00	4.0	1.9																				
											3	1.00	1.20	S1	Pc		0.264													
								1.25	3.8	1.5																				
								1.50	5.1	1.5																				
								1.75	5.9	1.7																				
								2.00	6.2	1.6	5	1.80	2.00		Pc		1.542													
								2.25	6.4	1.5																				
								2.50	6.1	1.4																				
								2.75	6.2	1.3																				
								3.00	6.3	1.7																				
	4	3.00	3.40	CKS				3.25	6.0	1.6																				
	5	3.40	4.00	CKS				3.50	6.4	1.5																				
								3.75	6.6	1.5	9	3.70	3.90		Ps		1.327													
								4.00	6.7	1.7																				
	6	4.00	5.50	CKS				4.25	6.7	1.5																				
								4.50	6.4	1.8																				
											11	4.50	4.70		Ps		0.352													
								4.75	6.5	1.7																				
								5.00	6.8	1.4																				
								5.25	6.5	1.7																				
								5.50	6.8	2.2																				
	7	5.50	6.00	LMC							13	5.50	5.70		Pc		0.379													
								5.75	6.9	1.9																				
								6.00	7.4	5.8																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
242	1	0.00	0.10	CL				0.10	4.4	2.4																					
	2	0.10	0.60	CL				0.30	5.8	2.6																					
								0.60	5.3	3.2																					
	3	0.60	1.00	CL				0.80	5.1	3.9																					
								1.00	4.9	3.7																					
	4	1.00	1.25	SCL				1.25	5.1	3.8																					
	5	1.25	1.50	CL				1.50	5.4	5.1																					
	6	1.50	2.20	S				1.75	5.7	6.2																					
								2.00	5.7	5.8	6	1.80	2.10					< 0.02													
	7	2.20	2.80	KS				2.25	5.9	5.8																					
								2.50	5.8	5.6																					
								2.75	5.9	5.9																					
	8	2.80	3.80	KS				3.00	6.0	5.9																					
								3.25	6.1	6.3																					
								3.50	6.1	6.1	9	3.40	3.70					< 0.02													
								3.75	6.0	2.6																					
	9	3.80	4.80	KS				4.00	6.1	2.2																					
								4.25	6.3	2.0	10	4.00	4.30	S4	Ps			0.159													
								4.50	6.3	2.0																					
								4.75	6.2	2.0	11	4.50	4.80		Ps			0.133													
	10	5.50	6.80	KS				5.75	6.3	1.7																					
								6.00	6.3	1.9																					
								6.25	6.4	2.0																					
								6.50	6.7	1.8																					
								6.75	6.9	1.8																					
	11	6.80	7.20	CL				7.00	6.9	1.3																					
								7.20	7.0	1.4	14	7.00	7.20		Pl			1.496													
243	1	0.00	0.10	CL				0.10	5.1	2.9																					
	2	0.10	0.30	CL				0.30	5.6	3.2																					
	3	0.30	0.70	CS				0.60	5.4	5.1																					
	4	0.70	0.95	SL				0.80	5.2	3.4																					
	5	0.95	1.40	SL				1.00	5.4	4.0																					
								1.25	5.5	4.4																					
	6	1.40	2.25	S				1.50	5.7	5.2																					
								1.75	5.7	5.5																					
								2.00	5.7	5.5																					
								2.25	5.3	4.7																					
	7	2.25	2.60	LS				2.50	5.6	5.3																					
	8	2.60	2.95	LS				2.75	5.9	4.9																					
	9	2.95	3.60	LS				3.00	5.8	5.6																					
								3.25	5.8	5.5																					
								3.50	5.7	5.8																					
	10	3.60	3.90	LFS				3.75	5.6	5.4																					
	11	3.90	4.10	FSCL				4.00	5.3	4.0	12	3.90	4.10					< 0.02													
	12	4.10	4.30	LFS				4.25	5.1	3.9	13	4.10	4.30					< 0.02													
	13	4.30	4.55	LS				4.50	5.2	4.7																					
	14	4.55	5.00	LS				4.75	5.1	4.7																					
								5.00	5.2	4.8	15	4.80	5.00					< 0.02													
	15	5.00	6.00	KS				5.25	5.3	5.5																					
								5.50	5.6	5.6	16	5.30	5.70					< 0.02													
								5.75	5.6	5.5																					
								6.00	5.6	5.7																					
	16	6.00	6.30	S							17	6.00	6.20					< 0.02													
								6.25	5.7	5.1																					
	17	6.30	6.80	S				6.50	6.1	3.6																					
											18	6.50	6.70					< 0.02													
								6.75	6.2	3.4																					
	18	6.80	7.50	KS				7.00	5.9	1.9																					
								7.25	5.9	1.3																					
								7.50	5.7	1.6																					
	19	7.50	8.40	KS				7.75	5.5	1.5	20	7.60	7.80	S8	Ps			0.263													
								8.00	5.8	1.5																					
								8.25	5.8	1.5																					
								8.40	5.7	1.6																					
244	1	0.00	0.35	CL				0.10	4.6	2.6																					
								0.30	5.0	3.0																					
	2	0.35	0.65	SL				0.60	5.6	5.3																					
	3	0.65	1.40	FSL				0.80	6.0	4.6																					
								1.00	6.2	3.9																					
								1.25	5.6	3.5	4	1.20	1.40					< 0.02													
	4	1.40	2.35	LC				1.50	6.0	4.0																					
								1.75	5.5	3.1																					
								2.00	5.6	3.6																					
								2.25	5.4	3.2																					
	5	2.35	2.90	MHC				2.50	5.4	3.4																					
								2.75	5.4	3.2	7	2.60	2.80					< 0.02													
	6	2.90	3.25	MC				3.00	5.9	3.3																					
											8	3.00	3.20					< 0.02													
								3.25	6.0	2.9																					
	7	3.25	3.80	KS				3.50	5.6	1.6																					
											9	3.50	3.70	S4	Ps			0.339													
								3.75	5.6	1.8																					
	8	3.80	6.00	KS				4.00	5.7	2.0	10	3.80	4.00		Ps			0.137													
								4.25	5.5	1.8																					
								4.50	5.7	1.7																					
								4.75	6.3	1.8																					
								5.00	6.2	2.4	12	4.80	5.00		Ps			0.292													
								5.25	6.1	1.8																					
								5.50	6.2	1.8																					
								5.75	6.1	1.8																					
								6.00	6.2	1.4	14	5.80	6.00		Ps			0.59													
245	1	0.00	0.25	CL				0.10	3.8	2.8	1	0.00	0.20					< 0.02						36	4.2		0.01				
	2	0.25	0.75	CL				0.30	4.6	3.1																					
								0.60	4.8	3.1																					
	3	0.75	1.10	ZCL				0.80	4.6	3.6																					
								1.00	5.0	3.8																					
	4	1.10	1.40	CL				1.25	5.1	1.8	4	1.20	1.40					< 0.02													
	5	1.40	2.10	CLS				1.50	5.0	3.8																					
								1.75	5.0	4.0																					
								2.00	4.9	4.0																					
	6	2.10	2.40	CLS				2.25	5.8	3.7																					
	7	2.40	3.50	CKS				2.50	6.2	1.7																					
								2.75	6.3	1.4																					
								3.00	6.6	1.5	8	2.70	3.00	S3	Ps			1.014													
								3.25	6.2	3.5																					
								3.50	6.5	1.6	9	3.30	3.50		Ps			1.366													
	8	3.50	6.00	CL				3.75	6.7	1.6																					
								4.00	6.9	1.3	10	3.80	4.00		Pl			2.123													
								4.25	6.9	1.3																					
								4.50	7.1	1.5																					
								4.75	7.2	1.3																					
								5.00	7.3	1.4	12	4.80	5.00		Pl			2.118													
								5.25	7.5	1.2																					
								5.50	6.8	1.6																					
								5.75	6.9	1.3																					
								6.00	7.0	1.4																					

Field Morphology Summary										Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
								Field pH									Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				TPA =0	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
246	1	0.00	0.20	SL				0.10	3.7	3.0																				
	2	0.20	0.75	LS				0.30	4.5	2.6																				
								0.60	5.5	3.6																				
	3	0.75	1.15	LS				0.80	5.8	3.7																				
								1.00	5.8	3.6																				
	4	1.15	2.15	ZCL				1.25	5.6	2.9																				
								1.50	5.6	4.5																				
								1.75	5.6	4.8																				
								2.00	5.8	4.0																				
	5	2.15	2.80	LC				2.25	6.2	4.1																				
								2.50	6.1	3.9																				
								2.75	5.7	3.9																				
	6	2.80	3.15	SLC				3.00	5.7	3.8	8	2.90	3.10				< 0.02													
	7	3.15	4.30	KS				3.25	5.4	4.4																				
								3.50	6.0	1.9																				
								3.75	5.6	2.5																				
								4.00	5.4	1.8	10	3.80	4.00				< 0.02													
								4.25	5.3	1.9																				
	8	4.30	4.80	KS				4.50	5.2	1.8	11	4.30	4.50	S5	Ps		0.075													
								4.75	5.5	1.5																				
	9	4.80	5.20	KS				5.00	6.2	1.5	12	4.80	5.00		Ps		0.613													
	10	5.20	6.00	LC				5.25	6.6	1.2																				
								5.50	6.8	1.4	13	5.30	5.50		Pc		1.728													
								5.75	6.9	1.3																				
								6.00	7.0	1.3																				
247	1	0.00	0.10	SCL				0.10	5.2	4.2																				
	2	0.10	0.50	MHC				0.30	5.2	4.4																				
											2	0.30	0.50				< 0.02													
	3	0.50	0.85	FSCL				0.60	5.5	5.2																				
								0.80	6.0	6.2	3	0.60	0.80				< 0.02													
	4	0.85	2.20	FSCL				1.00	6.4	5.1	4	0.85	1.00				< 0.02													
								1.25	6.2	4.3																				
								1.50	6.1	5.3	5	1.30	1.50				< 0.02													
								1.75	5.9	5.6																				
								2.00	6.0	6.1																				
	5	2.20	2.65	SCL				2.25	6.1	6.0																				
								2.50	6.1	5.6																				
	6	2.65	3.30	LC				2.75	5.9	5.7																				
								3.00	6.0	5.6																				
								3.25	6.0	5.8																				
	7	3.30	3.40	CL				3.40	5.9	5.5																				
248	1	0.00	0.30	FSCL				0.10	6.1	3.7																				
	2	0.30	0.60	FSCL				0.60	6.4	4.5																				
	3	0.60	0.75	CL				0.70	6.2	5.6																				
	4	0.75	1.25	MC				0.80	5.9	4.9																				
								1.00	5.9	4.4																				
											4	1.00	1.20				< 0.02													
								1.25	6.7	5.2																				
	5	1.25	1.50	MC				1.50	7.1	8.1	5	1.30	1.50				< 0.02													
	6	1.50	2.10	MC			SS	1.75	7.3	6.3																				
								2.00	7.6	8.3	6	1.80	2.00				< 0.02													
	7	2.10	2.70	MHC				2.25	7.8	8.0																				
								2.50	7.2	8.0	7	2.30	2.50				< 0.02													
	8	2.70	3.40	MHC				2.75	7.2	7.6																				
								3.00	6.9	6.1																				
								3.25	7.2	7.3																				
								3.40	7.2	6.3																				
249	1	0.00	0.15	LS				0.10	5.3	4.9																				
	2	0.15	1.00	SCL				0.30	5.9	5.8																				
								0.60	5.8	3.7																				
								0.80	5.8	4.6																				
								1.00	6.1	3.5																				
	3	1.00	1.30	IP				1.25	6.1	1.1	4	1.10	1.30	S1	Pl		3.641													
	4	1.30	1.50	LC				1.50	6.3	3.4	5	1.30	1.50		Pc		0.222													
	5	1.50	1.75	CS							6	1.50	1.70		Ps		0.034													
								1.75	6.1	1.6																				
	6	1.75	2.10	S				2.00	7.0	1.5																				
	7	2.10	2.75	KS				2.25	7.2	1.6																				
								2.50	7.6	1.8	8	2.30	2.50		Ps		0.266													
								2.75	7.5	1.9																				
	8	2.75	3.05	S				3.00	7.4	1.8	9	2.80	3.00		Ps		0.26													
	9	3.05	3.40	SL			SS	3.25	7.9	7.0	10	3.20	3.40		Pl	-1.825	-1.600	0.571	0	0			0	8.3	7.5	0.09	3.256		3.02
	10	3.40	5.50	LC			SS	3.50	8.6	6.5																				
								3.75	8.9	6.6																				
								4.00	8.7	6.3																				
								4.25	8.7	6.7																				
								4.50	9.1	7.0	12	4.30	4.50		Pc	-2.655	-2.445	0.852	0	0			0	8.5	7.7	0.07	4.945		4.41
								4.75	9.1	7.0																				
								5.00	9.1	7.0																				
								5.25	9.4	7.2																				
								5.50	8.9	6.6																				
	11	5.50	5.95	SLC				5.75	8.2	3.5	15	5.70	5.90		Pc		0.115													
	12	5.95	6.00	GR				6.00	8.2	6.2																				
250	1	0.00	0.15	SCL				0.10	6.0	3.5																				
	2	0.15	0.90	CL				0.30	6.7	3.9																				
								0.60	6.3	4.5																				
								0.80	7.2	6.3																				
	3	0.90	1.25	SCL				1.00	7.2	6.4																				
								1.25	7.2	4.5																				
	4	1.25	1.80	CL				1.50	7.5	5.8																				
											5	1.50	1.70	S2	Pl		0.741													
								1.75	7.1	1.7																				
	5	1.80	2.60	HP				2.00	7.5	1.5	6	1.80	2.00		Pl		1.856													
								2.25	7.8	1.5																				
								2.50	7.3	1.9	7	2.30	2.50		Pl		1.063													
	6	2.60	3.05	CKS				2.75	6.9	2.0																				
								3.00	8.0	2.0																				
	7	3.05	3.40	FSCL			SS	3.25	7.6	6.2																				
	8	3.40	4.80	FSCL			SS	3.50	7.9	6.6																				
								3.75	7.6	6.4																				
								4.00	8.0	6.5																				
								4.25	7.9	6.5																				
								4.50	7.3	6.3	11	4.30	4.50		Pl	-0.242	-0.023	0.650	0	0			0	8.6	7.4	0.14	1.009		0.69
								4.75	7.7	6.5																				
	9	4.80	5.40	SCL				5.00	7.6	5.9																				
								5.25	7.4	5.5																				
	10	5.40	5.80	SCL				5.50	7.6	6.4																				
								5.75	7.2	6.4																				
251	1	0.00	0.45	LC				0.10	7.6	6.8	1	0.00	0.20				< 0.02													
								0.30	6.9	5.6																				
	2	0.45	1.40	LC				0.60	6.9	1.4	2	0.50	0.70	S0	Pc		1.884													
								0.80	7.1	1.3																				
								1.00	7.3	1.4																				
								1.25	7.1	1.3	3	1.00	1.30		Pc		0.935													
252	1	0.00	0.05	LC				0.01	5.9	2.6	1	0.00	0.05				0.033													
	2	0.05	0.50	LC				0.10	6.8	2.0																				
								0.30	7.1	2.2																				
											2	0.30	0.50	S0	Pc		0.302													
	3	0.50	0.90	SL				0.60	6.5	2.3																				
								0.80	6.6	1.9	3	0.70	0.90				0.044													
	4	0.90	1.20	FSLC				1.00	6.9	3.1																				
											4	1.00	1.20				0.022													
	5	1.20	1.50	CS			SS	1.25	6.6	1.8																				
								1.50	6.5	2.7	5	1.30	1.50		Ps		0.34													
	6	1.50	1.85	CKS			SS	1.75	6.4	1.6	6	1.60	1.80		Ps		0.338													
	7	1.85	2.25	CKS				2.00	6.3	2.4																				
								2.25	6.2	2.6																				

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
																		Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
(m)								(m)				(m)				%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
253	1	0.00	0.25	CL				0.10	5.6	3.9																					
	2	0.25	1.45	CL				0.30	5.7	5.0																					
								0.60	6.0	6.4																					
								0.80	5.9	6.5																					
								1.00	6.1	6.1																					
								1.25	6.1	6.6																					
	3	1.45	2.40	CL				1.50	6.2	7.1																					
								1.75	6.1	7.1																					
								2.00	6.1	6.9																					
								2.25	6.0	7.1																					
	4	2.40	3.00	FSCL				2.50	6.0	6.6																					
								2.75	6.1	7.1																					
								3.00	6.1	7.0																					
	5	3.00	3.80	SL				3.25	6.2	7.2																					
								3.50	6.1	7.2	8	3.30	3.50					< 0.02													
								3.75	6.2	6.7																					
	6	3.80	5.40	LS				4.00	5.9	5.2																					
								4.25	6.1	5.3																					
								4.50	5.9	5.5	10	4.30	4.50					< 0.02													
								4.75	6.0	6.4																					
								5.00	6.0	5.6																					
								5.25	6.2	5.7																					
	7	5.40	5.90	LFS				5.50	6.1	5.4																					
								5.75	6.1	4.7	13	5.70	5.90					< 0.02													
	8	5.90	6.20	CLFS				6.00	5.9	5.2																					
	9	6.20	6.70	CLFS				6.25	6.6	3.0																					
								6.50	7.0	3.6																					
											15	6.50	6.70					< 0.02													
	10	6.70	7.05	CLFS				6.75	7.2	3.6																					
								7.00	7.1	3.4	16	6.80	7.00					0.025													
	11	7.05	7.20	FSCL				7.20	6.5	2.1	17	7.05	7.20					0.028													
	12	7.20	7.60	CLFS				7.50	6.3	2.1																					
	13	7.60	8.35	LC				7.75	6.5	1.9																					
								8.00	6.4	1.3	19	7.90	8.10	S8	Pc			1.625													
								8.25	7.0	1.0																					
	14	8.35	8.70	FSCL				8.50	6.7	1.7																					
	15	8.70	9.60	LC				8.75	6.8	1.3																					
								9.00	6.7	1.3																					
								9.25	7.0	0.9																					
								9.50	7.6	1.1	22	9.40	9.60		Pc			2.17													
	16	13.24	14.16	ZLC				13.25	8.2	7.1																					
								13.50	8.3	7.0																					
								13.75	8.3	6.9																					
								14.00	8.6	7.4																					
254	1	0.00	0.10	CL				0.10	5.1	2.6																					
	2	0.10	0.40	CL				0.30	5.7	3.1																					
	3	0.40	0.65	CL				0.60	6.1	4.4																					
	4	0.65	1.05	FSCL				0.80	6.2	4.5																					
								1.00	6.4	4.8																					
	5	1.05	2.05	FSL				1.25	6.2	5.0																					
								1.50	6.3	5.5																					
								1.75	6.6	5.4																					
								2.00	7.1	5.2																					
	6	2.05	2.55	CLFS				2.25	7.0	5.4																					
								2.50	7.3	5.7	7	2.30	2.50					< 0.02													
	7	2.55	3.05	CFS				2.75	7.0	6.0																					
								3.00	7.1	6.1																					
	8	3.05	3.40	FSCL				3.25	7.0	5.6	9	3.20	3.40					< 0.02													
	9	3.40	3.80	CLFS				3.50	7.1	5.6																					
								3.75	7.5	2.9	10	3.60	3.80					< 0.02													
	10	3.80	4.10	FSCL				4.00	7.4	1.5	11	3.90	4.10	S4	Pl			0.233													
	11	4.10	4.50	CL				4.25	7.2	1.1																					
								4.50	7.6	1.1	12	4.30	4.50		Pl			2.484													
	12	4.50	5.40	CL				4.75	7.6	1.1																					
								5.00	7.5	1.2	13	4.80	5.00		Pl			1.61													
								5.25	7.3	1.1																					
	13	5.40	6.00	LC				5.50	7.3	1.1																					
								5.75	7.4	1.2																					
								6.00	7.4	1.0																					
255	1	0.00	0.25	SCL				0.10	7.9	8.0																					
	2	0.25	0.80	SCL				0.30	7.7	7.1																					
								0.60	7.6	6.6																					
								0.80	7.2	4.1																					
	3	0.80	1.20	MC	J		SS	1.00	7.1	7.0	3	0.80	1.00			-0.068	0.023		0.040	0	0			0	7.1	7.2	0.02	0.026		0.12
	4	1.20	1.45	SL				1.25	6.7	2.9	4	1.20	1.40					< 0.02													
	5	1.45	1.75	CKS				1.50	7.1	4.9																					
								1.75	6.8	5.1																					
	6	1.75	2.20	MC				2.00	5.4	4.1	6	1.80	2.00					< 0.02													
	7	2.20	2.55	KS				2.25	6.9	5.2																					
								2.50	7.0	5.7																					
	8	2.55	3.00	KS			SS	2.75	7.0	5.0																					
								3.00	7.4	6.4	8	2.80	3.00	S3	Ps			0.139													
	9	3.00	3.75	LC			SS	3.25	7.9	6.8																					
								3.50	8.6	6.6	9	3.30	3.50		Pc			1.318													
								3.75	7.9	1.4																					
	10	3.75	4.20	LC				4.00	7.9	1.2																					
	11	4.20	5.45	LC				4.25	7.8	1.6																					
								4.50	8.1	1.4																					
								4.75	8.0	1.4																					
								5.00	8.1	1.5	12	4.80	5.00		Pc			1.888													
								5.25	7.9	1.6																					
	12	5.45	6.00	MC				5.50	7.9	3.6																					
								5.75	7.7	6.1																					
								6.00	7.7	7.1																					
256	1	0.00	0.65	CLS				0.10	4.8	3.6																					
								0.30	5.5	4.4																					
								0.60	4.9	2.9																					
	2	0.65	1.15	CLS	J			0.80	4.2	2.3																					
								1.00	4.1	2.2	3	0.80	1.00						0.038	0	4			31	4.3	4.0	0.02	0.000		
	3	1.15	1.35	CKS				1.25	4.8	2.2																					
	4	1.35	1.50	LC				1.50	6.6	2.6	5	1.35	1.50					0.043													
	5	1.50	1.75	KS							6	1.50	1.70	S2	Ps			0.043													
								1.75	6.2	1.7																					
	6	1.75	3.45	FSCL			SS	2.00	6.6	1.9	7	1.80	2.00		Pl				1.640	1045	1116			71	3.9	1.9	0.24	0.010		
								2.25	6.9	6.4																					
								2.50	8.0	6.7																					
								2.75	8.0	6.4																					
								3.00	7.9	6.9	9	2.80	3.00		Pl				1.377	78	78			0	8.6	3.2	0.11	0.921		
								3.25	7.5	4.6																					
	7	3.45	4.50	LC				3.50	7.4	1.1																					
								3.75	6.6	1.4																					
								4.00	7.3	1.3	11	3.80	4.00		Pc			1.783													
								4.25	7.3	1.1																					
								4.50	7.4	1.2																					
	8	4.50	4.80	IP				4.75	7.4	0.8																					
	9	4.80	5.15	LC				5.00	7.5	1.2																					
	10	5.15	5.40	SCL				5.25	7.6	1.9																					
	11	5.40	5.85	LCS				5.50	7.5	1.3																					
								5.75	7.5	1.7																					
	12	5.85	6.00	LCS				6.00	7.5	5.9																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting		Lab Results													
									Field pH									Potential Acidity				Existing Acidity			SPOCAS				Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5	TPA =0	S_{CR}	S_{POS}	TSA	TPA	$a\text{-}S_{RAS}$	$a\text{-}S_{NAS}$	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	$s\text{-}Ca_A+s\text{-}Mg_A$	$s\text{-}ANC_{BT}$	$s\text{-}ANC_E$
		(m)						(m)				(m)			%S	%S		%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						$s\text{-}ANC_E$	s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
257	1	0.00	0.15	LS				0.10	4.3	3.4																					
	2	0.15	0.65	LS				0.30	5.0	4.8																					
								0.60	5.0	5.4																					
	3	0.65	0.95	S				0.80	5.4	5.9																					
	4	0.95	1.45	S				1.00	5.6	6.1																					
								1.25	5.8	5.8																					
	5	1.45	1.65	S				1.50	5.4	6.0																					
	6	1.65	2.00	LC			SS	1.75	4.2	3.4																					
								2.00	4.3	2.6	6	1.80	2.00						0.000	0	22			44	4.2	5.0	0.38	0.000		
	7	2.00	2.35	LC				2.25	6.1	2.5	7	2.10	2.30					0.091													
	8	2.35	2.60	SCL				2.50	6.3	6.1	8	2.40	2.60	S3	Pl				0.284	5	5			0	8.0	6.1	0.30	0.123		
	9	2.60	2.80	FSL			SS	2.75	6.2	5.9	9	2.60	2.80		Pl				1.031	8	8			0	8.2	5.7	0.13	0.675		
	10	2.80	3.60	IP				3.00	6.3	1.3																					
								3.25	6.5	0.8	10	3.10	3.30		Pl			2.337													
								3.50	6.5	1.6																					
	11	3.60	3.80	FSCL			SS	3.75	6.8	1.8	11	3.60	3.80		Pl			2.94													
	12	3.80	4.05	LC				4.00	6.9	3.1	12	3.80	4.00		Pc			0.585													
	13	4.05	4.35	MC				4.25	7.0	6.5																					
	14	4.35	4.80	MC				4.50	7.1	6.4																					
								4.70	7.2	6.7																					
258	1	0.00	0.10	FSCL				0.10	4.5	4.3																					
	2	0.10	0.40	FSCL				0.30	5.0	4.5																					
	3	0.40	0.90	FSL				0.60	5.2	4.1																					
								0.80	5.1	4.7																					
	4	0.90	1.50	FSCL				1.00	5.1	3.4																					
								1.25	4.7	3.0																					
								1.50	4.6	4.6																					
	5	1.50	2.60	FSCL				1.75	4.4	3.8																					
								2.00	4.2	4.0																					
								2.25	4.2	3.8																					
								2.50	4.1	2.9	6	2.30	2.50					< 0.02													
	6	2.60	3.00	LC				2.75	4.4	3.4																					
								3.00	4.6	0.8	7	2.80	3.00						0.062	34	118			84	3.8	3.5	0.01	0.001		
	7	3.00	3.60	IP				3.25	5.7	1.0																					
								3.50	6.4	1.0	8	3.30	3.50	S3	Pl			2.986													
	8	3.60	6.50	LC				3.75	6.7	0.9																					
								4.00	6.5	1.2																					
								4.25	6.7	1.2																					
								4.50	7.0	1.1	10	4.30	4.50		Pc			2.004													
								4.75	7.2	1.1																					
								5.00	7.3	1.3																					
								5.25	7.1	1.3																					
								5.50	7.3	1.1																					
								5.75	7.2	1.1																					
								6.00	7.3	1.3																					
								6.25	7.1	1.0																					
								6.50	7.0	1.3	14	6.30	6.50		Pc			1.807													
	9	6.50	7.00	IP				6.75	7.3	1.0																					
								7.00	7.3	1.8																					
	10	7.00	7.20	CKS				7.20	7.4	1.1																					
259	1	0.00	0.10	CL				0.10	4.7	3.3																					
	2	0.10	0.50	CL				0.30	5.0	3.4																					
	3	0.50	0.80	LC				0.60	5.3	2.4																					
								0.80	5.6	2.9	3	0.60	0.80					0.087													
	4	0.80	1.15	CLS				1.00	5.6	3.1	4	0.90	1.10					< 0.02													
	5	1.15	1.60	S				1.25	6.0	1.2																					
								1.50	6.2	1.6	5	1.40	1.60	S2	Ps			0.386													
	6	1.60	2.20	KS				1.75	6.1	1.3																					
								2.00	5.9	1.4																					
	7	2.20	3.25	SLC				2.25	5.8	1.3																					
								2.50	5.8	1.6	7	2.30	2.50		Pc			0.559													
								2.75	6.3	1.5																					
								3.00	5.6	1.5																					
								3.25	5.4	1.7																					
	8	3.25	4.20	S				3.50	5.6	1.8	9	3.30	3.50		Ps			0.15													
								3.75	6.1	1.6																					
								4.00	6.3	1.9																					
	9	4.20	4.90	KS				4.25	6.3	1.2																					
								4.50	6.3	1.8																					
								4.75	6.3	2.0																					
	10	4.90	5.90	KS				5.00	6.4	2.0																					
								5.25	6.4	1.7																					
								5.50	6.3	1.6																					
								5.75	6.2	1.7	14	5.70	5.90		Ps			0.061													
	11	5.90	7.20	CLFS				6.00	7.0	3.9																					
								6.25	6.9	5.8																					
								6.50	6.9	6.2																					
								6.75	6.9	5.7																					
								7.00	7.0	6.0																					
								7.20	6.9	6.1																					
260	1	0.00	0.10	SL				0.10	5.4	3.7																					
	2	0.10	0.30	SLMC				0.30	5.9	5.2																					
	3	0.30	0.75	SMC				0.60	6.1	5.3	3	0.50	0.60					< 0.02													
	4	0.75	1.20	LS				0.80	6.0	2.2																					
								1.00	6.6	1.0	4	0.90	1.10	S1	Ps			0.174													
	5	1.20	3.00	CS				1.25	6.7	1.3																					
								1.50	6.6	1.3	5	1.30	1.50		Ps			0.415													
								1.75	6.3	1.4																					
								2.00	6.5	1.4																					
								2.25	6.2	1.2																					
								2.50	6.1	1.1	7	2.30	2.50		Ps			0.15													
								2.75	5.9	1.4																					
								3.00	6.4	1.5																					
	6	3.00	3.90	CS				3.25	6.3	4.9																					
								3.50	6.3	5.2	9	3.30	3.50		Ps			0.035													
								3.75	6.2	5.0																					
	7	3.90	4.30	CLS				4.00	6.7	4.8																					
								4.25	6.6	1.7	11	4.10	4.30		Pl			0.087													
	8	4.30	4.70	CLKS				4.50	6.8	4.0																					
	9	4.70	5.70	CS				4.75	6.7	1.3																					
								5.00	6.6	1.5	13	4.90	5.10		Ps			2.717													
								5.25	6.4	1.3																					
								5.50	6.5	1.2																					
	10	5.70	6.00	CLFS				5.75	6.9	5.4																					
								6.00	6.7	5.4																					

Field Morphology Summary											Lab Sample			Action Criteria		SPOCAS Acid Base Accounting	Lab Results													
																	Potential Acidity				Existing Acidity			SPOCAS					Neutralising Cap.	
Site ID	Hor No	Upp Depth	Low Depth	Soil Texture	Jar.	Gyp.	Shell	Field pH Depth	pH_F	pH_{FOX}	No	Upp Depth	Low Depth	Depth 1st Action Level	Action Level Select %S	pH KCl =>6.5 TPA =0	S_{CR}	S_{POS}	TSA	TPA	a-S_{RAS}	a-S_{NAS}	TAA	pH_{KCl}	pH_{OX}	S_{KCl}	s-Ca_A+s-Mg_A	s-ANC_{BT}	s-ANC_E
		(m)						(m)				(m)				%S	%S		mol H+/t		mol H+/t						%S	%S	%S
									23Af	23Bf						s-ANC_E s-Ca+s-Mg	22B	23Ee	23H	23G	a-23Re	a-20J	23F	23A	23B	23Ce	s-23Xh+s-23Um	s-19A2	s-23Q
261	1	0.00	0.15	SCL				0.10	5.6	3.8																				
	2	0.15	0.75	CLS				0.30	5.4	4.5																				
								0.60	5.3	4.3																				
	3	0.75	1.40	LS				0.80	5.3	4.9																				
								1.00	5.6	5.0																				
								1.25	5.4	4.6																				
	4	1.40	1.70	KS				1.50	5.6	6.0																				
	5	1.70	3.10	S				1.75	5.7	5.7																				
								2.00	5.6	6.1																				
								2.25	5.6	6.1																				
								2.50	5.6	6.1																				
								2.75	5.7	6.0																				
								3.00	6.0	6.1																				
	6	3.10	3.40	S				3.25	5.8	8.9																				
	7	3.40	3.60	S				3.50	5.8	6.4																				
	8	3.60	4.15	S				3.75	5.8	6.2																				
								4.00	5.9	6.3																				
	9	4.15	5.95	KS				4.25	6.2	6.3																				
								4.50	6.2	6.4	12	4.30	4.50				< 0.02													
								4.75	6.3	5.6																				
								5.00	6.4	5.9																				
								5.25	6.3	6.2																				
								5.50	6.5	6.2																				
								5.75	6.2	5.6	14	5.40	5.80				< 0.02													
	10	5.95	6.20	KS				6.00	6.3	2.1																				
											15	6.00	6.20	S6	Ps		0.131													
	11	6.20	6.50	LFS				6.25	6.8	5.2																				
								6.50	6.9	5.6	16	6.30	6.50				< 0.02													
	12	6.50	7.20	SCL				6.75	6.4	6.0																				
								7.00	6.5	5.9																				
								7.20	6.5	6.0	17	6.80	7.20				0.023													
262	1	0.00	0.10	LC	J			0.10	3.3	2.0	1	0.00	0.10					0.074	0	22			26	4.4	3.5	0.09	0.011		
	2	0.10	0.45	LC	J			0.30	3.9	1.6	2	0.20	0.40	S0	Pc			0.169	111	152			41	4.3	2.8	0.09	0.007		
	3	0.45	1.10	LC				0.60	4.0	1.5																				
								0.80	4.1	1.0	3	0.70	0.90		Pc		2.443													
								1.00	5.5	1.0																				
	4	1.10	2.90	IP				1.25	6.0	1.1	4	1.10	1.30		Pl		1.891													
								1.50	6.6	1.3																				
								1.75	6.5	1.3																				
								2.00	6.8	1.3																				
								2.25	6.4	1.2	6	2.10	2.30		Pl		0.813													
								2.50	6.8	1.1																				
								2.75	6.7	1.0																				
	5	2.90	3.30	SLC				3.00	6.8	1.2																				
								3.25	6.6	1.2	8	3.10	3.30		Pc		0.751													
	6	3.30	3.60	CS				3.50	6.8	1.2																				
	7	3.60	4.20	CKS				3.75	6.5	1.4																				
								4.00	6.8	1.2	10	3.80	4.00		Ps		0.618													
	8	4.20	4.80	CKS				4.25	6.9	1.3																				
								4.50	7.2	1.7																				
								4.75	7.4	1.7	12	4.60	4.80		Ps		0.301													