

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL	
Ruishton 2		Pit 1		0°		PGR		752 mm		RPT/GMS/421	
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO		SOIL SAMPLE REFERENCES	
74/94		24/6/94		ASP 6 ST 269 247		GMS		1561 day °C		Alluvium	
								FC Days			
								162			
								Climatic Grade			
								1			
								Exposure Grade			
								1			

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	28	HCL	7.5YR4/2	0% (Sieved)	none	none					MVF	none	Clear smooth
2	55	C	5YR5/4	Total 15% HR (S+D)	none	none	MCSAB	Friable	M	Low	CVF	none	Clear smooth
3	70+	C	5YR5/4	50% HR (Visual)	none	none	MCSAB	Friable	M	G	FVF	none	

Profile Gleyed From Not gleyed

Depth to Slowly Permeable Horizon No SPL

Wetness Class 1

Wetness Grade 2

NL3361

Available Water Wheat 121 mm

Potatoes 105 mm

Moisture Deficit Wheat 112 mm

Potatoes 107 mm

Moisture Balance Wheat 9 mm

Potatoes 2 mm

Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 2

Main Limiting Factor(s) Workability

Remarks

SITE NAME Rushton (2)		PROFILE NO Pit 2	SLOPE AND ASPECT 0°	LAND USE PLO	Av Rainfall 752 mm ATO 1561 day °C		PARENT MATERIAL Keuper Marl	
JOB NO 74/94		DATE 27/6/94	GRID REFERENCE ST 271 239	DESCRIBED BY HLJ/GMS	FC Days 162 Climatic Grade 1 Exposure Grade 1		SOIL SAMPLE REFERENCES RPT/PB/145	

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	27	ZC	10YR42	neg	none	none					FF		Gradual smooth
2	50	C	05GY61	0%	none	none	MCSAB	Firm	M	Good	none		Gradual smooth
3	70+	C	05GY61	0%	none	none	WMSAB	Firm	G	Good	none		

Profile Gleyed From Not gleyed
 Depth to Slowly Permeable Horizon No SPL
 Wetness Class 1
 Wetness Grade 3γ

NL3361

Available Water Wheat 187 mm
 Potatoes 124 mm
 Moisture Deficit Wheat 112 mm
 Potatoes 107 mm
 Moisture Balance Wheat 75 mm
 Potatoes 17 mm
 Droughtiness Grade 1 (Calculated to 120 cm)

Final ALC Grade 3γ
 Main Limiting Factor(s) Workability

Remarks

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL	
Ruishton (2)		Pit 3		0		PGR		752 mm		Valley Gravel/Keuper Marl	
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO		SOIL SAMPLE REFERENCES	
74/94		28/6/94		ST 258 241 (ASP 31)		HLJ/GMS		1561 day °C		RPT/HLJ/51	
								FC Days			
								162			
								Climatic Grade			
								1			
								Exposure Grade			
								1			

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	25	HCL	10YR43	1% HR Visual	None	None					CF CVF		Clear smooth
2	45	C	10YR46	1% HR Visual	FFFO	F	MCSAB	Fr	M	Good	CF CVF		Clear smooth
3	75	C	7.5YR44	2% HR large 26% HR <2cm 28% HR Total (S+D)	FFFO	F	WC/MSAB	Fr	M	Good	CF VF		Clear wavy
4	95+	C	2.5YR58	1% HR (Vis)	FFFO	F	WC/MAB	Fm	M/P	Poor	FF VF		

Profile Gleyed From Not gleyed
 Depth to Slowly Permeable Horizon 90 cm
 Wetness Class 1
 Wetness Grade 2

Available Water Wheat 128 mm
 Potatoes 106 mm
 Moisture Deficit Wheat 112 mm
 Potatoes 107 mm
 Moisture Balance Wheat 16 mm
 Potatoes 1 mm
 Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 2
 Main Limiting Factor(s) Workability

Remarks
 SPL stats at 90 not at the top of H4 because of structure

SITE NAME Ruiston (2)		PROFILE NO Pit 4	SLOPE AND ASPECT 0°		LAND USE PGR	Av Rainfall 752 mm ATO 1561 day °C		PARENT MATERIAL Keuper Marl				
JOB NO 74/94		DATE 28/6/94	GRID REFERENCE ST 256 241 (ASP 29)		DESCRIBED BY PRW		FC Dava 162 Climatic Grade 1 Exposure Grade 1		SOIL SAMPLE REFERENCES RPT/PRW/112			

Horizon No	Lowest Av Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness Size Type and Field Method	Mottling Abundance Contrast Size and Colour	Mangan Concs	Structure Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots Abundance and Size	Calcium Carbonate Content	Horizon Boundary Distinctness and form
1	22	HCL	75YR3/4	0%	N	N		Friable	Moderate	Many	Many Fine		Abrupt smooth
2	50	HCL	75YR4/6	0%	N	Few	Moderate Medium Subangular Blocky	Friable	Moderate	Many	Many Fine		Abrupt smooth
3	65	HCL	75YR4/6	10% Hard Rock Sieved	N	Few	Estimated MMSAB	Friable	Moderate	Many	Common Fine		Abrupt smooth
4	85+	C	5YR4/3	0%	5YR5/8 Common	N	Moderate Medium Prismatic	Firm	Moderate	<0.5% biopores in ped	Few to common ex ped		

Profile Gleyed From	Available Water	Wheat	142 mm	Final ALC Grade	3a
Depth to Slowly Permeable Horizon 63 cm		Potatoes	114 mm		
Wetness Class II	Moisture Deficit	Wheat	112 mm	Main Limiting Factor(s) Wetness	
Wetness Grade 3a		Potatoes	107 mm		
	Moisture Balance	Wheat	30 mm	Remarks Wetness class representative for ASP 35 36 28 29	
		Potatoes	7 mm		
NL3361	Droughtiness Grade		2 (Calculated to 120 cm)		