

SITE NAME Long Road Goodrington		PROFILE NO Pit 1 (ASP 127)		SLOPE AND ASPECT 1° S		LAND USE PGR		Av Rainfall 987 mm ATO 1588°C FC Days 208 Climatic Grade 1			PARENT MATERIAL Mid Devonian Limestone		
JOB NO 11/94		DATE 21/2/94		GRID REFERENCE SX 866583		DESCRIBED BY PB/PW					TOPSOIL SAMPLE REFERENCE RPT/PB/93		
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	15	05YR43	MSZL	5% HR VIS	0					MF	No	0	Ab wavy
2	40	05YR43	MSZL	40 % HR >2cm 18% HR >2mm 58 (S+D)	0	Too stony to assess	Good	M		CF VF	Y	0	Grad smooth
3	70+	05YR54	MCL	30% HR >2cm 42% HR >2mm 72 (S+D)	0 (rotten stones only)			M		FVF	Y	0	

Profile Gleyed From

Depth to Slowly Permeable Horizon

Wetness Class 1

Wetness Grade 1

Available Water	Wheat	58 mm
	Potatoes	62 mm
Moisture Deficit	Wheat	97 mm
	Potatoes	88 mm
Moisture Balance	Wheat	39 mm
	Potatoes	26 mm
Droughtiness Grade		3b (Calculated to 70 cm)

Final ALC Grade 3b

Main Limiting Factor(s) Dr

Remarks

Top 25 cm 44% HR stones >2cm  
(Grade 3b stoniness)

SITE NAME Long Road Goodrington		PROFILE NO Pit 2 (ASP 160)		SLOPE AND ASPECT 2° N		LAND USE CER		Av Rainfall 987 mm ATO 1588°C		PARENT MATERIAL Igneous Tuffs Shalsteins etc			
JOB NO 11/94		DATF 21/2/94		GRID REFERENCE SX 867581		DESCRIBED BY PB/PW		FC Days 208 Climatic Grade 1		TOPSOIL SAMPLE REFERENCE RPT/PB/94			

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	05YR43	HZCL	<1% HR VIS	0					CR	0	0	Ab smooth
2	50	05YR43	MZCL	0	0	MCSAB		M	Frable	FF	0	0	Clear smooth
3	90	05YR44	FSL	0	0	MCAB		M	Frable	FF	0	0	Clear smooth
4	120	7.5YR5.4	FSL	0	0	MCSAB		M	Frable	0	0	0	

Profile Gleyed From

Depth to Slowly Permeable Horizon

Wetness Class 1

Wetness Grade 3a

Available Water Wheat 181 mm

Potatoes 126 mm

Moisture Deficit Wheat 97 mm

Potatoes 88 mm

Moisture Balance Wheat 84 mm

Potatoes 38 mm

Droughtiness Grade 1 (Calculated to 120 cm)

Final ALC Grade 3a

Main Limiting Factor(s) Wk

Remarks

Easy working under hand texturing indicates that a higher grade would be appropriate (Grade 2)

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall			PARENT MATERIAL		
Long Road Goodrington		Pit 3		4° North		FLW		1100mm			Igneous Tuffs Shalsteins etc		
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO			SOIL SAMPLE REF		
11/94		22/2/94		ASP 66 SX872587		HLJ/GC		207			HLJ/19		
FC Days								Climatic Grade					
1								1					
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	75YR33	MCL	2% SLST >2cm 2% SLST <2cm 4% SLST Total (sieve and displacement)	None		Good			Common fine + very fine	Very slightly calcareous (0.5%-1%)	None	Clear smooth
2	42	7.5%44	MZCL	10 / SLST >6cm 15 / SLST >2cm 25 / SLST <2cm 50 / SLST Total (sieve + displacement)	None	WDCSAB	Good	M	Friable	Few very fine	Slightly calcareous (1.5%)	None	Clear smooth
3	120+	10YR54/ 10YR44	MCL	60 / SLST >2cm 12 / SLST <2cm 72 / SLST Total (sieve + displacement)	None	Defined by stones	Good	M		Few very fine	Very slightly calcareous (0.5% 1%)	None	

Profile Gleyed From N/A

Depth to Slowly Permeable Horizon N/A

Wetness Class 1

Wetness Grade 2

Available Water Wheat 102mm

Potatoes 82mm

Moisture Deficit Wheat 97mm

Potatoes 88mm

Moisture Balance Wheat +5mm

Potatoes -6mm Calculated to 120 cm

Droughtiness Grade 2

Final ALC Grade 2

Main Limiting Factor(s) Droughtiness

Remarks

Pit dug to 85 cm

SITE NAME Long Road Goodrington		PROFILE NO Pit 4 (ASP 178)	SLOPE AND ASPECT 3° N	LAND USE FLW	Av Rainfall 1114 mm	PARENT MATERIAL Mid Devonian Limestone	
JOB NO 11/94		DATE 22/2/94	GRID REFERENCE SX 870580	DESCRIBED BY PB/PW	ATO 1514 C	TOPSOIL SAMPLE REFERENCE RPT/PB/96	
					FC Days 225		
					Climatic Grade 1		

Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	23	5YR44	HZCL	2% HR VIS	0					CF VF	0	0	Ab smooth
2	70	5YR44	HZCL	2% HR VIS	0	MMSAB	G	G	Frable	FF	0	0	Grad wavy
3	85	25YR44	HCL	2% HR VIS	0	MCSAB	G	M	FR	0	0	0	Ab irregular
4	120	25YR44	HCL	10% HR >6cm? solid VIS	0	MCSAB	G	M	FR	0	0	0	

Profile Gleyed From	Available Water	Wheat	150 mm	Final ALC Grade	3a
Depth to Slowly Permeable Horizon		Potatoes	137 mm	Main Limiting Factor(s)	Wk
Wetness Class	1	Moisture Deficit	Wheat 97 mm		
Wetness Grade	3a		Potatoes 88 mm		
		Moisture Balance	Wheat 53 mm		
			Potatoes 49 mm		
		Droughtiness Grade	1 (Calculated to 120 cm)	Remarks	

SITE NAME Long Road Goodrington		PROFILE NO Pit 5 (ASP 180)	SLOPE AND ASPECT 6° W		LAND USE CER		Av Rainfall 1114 mm ATO 1514°C		PARENT MATERIAL Igneous Tuffs Shalsteins etc				
JOB NO 11/94		DATE 22/2/94	GRID REFERENCE SX 872580		DESCRIBED BY PB/PW		FC Days 225 Climatic Grade 1		TOPSOIL SAMPLE REFERENCE RPT/PB/97				
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	05YR44	MCL	32% <2cm 2% >2cm (S+D)	0					CF	0	0	Ab smooth
2	42	05YR46	MCL	22% HR <2cm (S+D)	0	MCSAB	G	M	FR	FF	0	0	Cl smooth
3	65	7 5YR46	HCL	33% HR <2cm (S+D)	0	WCAB	G	M	FR	FF	0	0	Ab smooth
4	100+	10YR44	HCL	7% HR >2cm 65% HR<2cm	0	M				FF	0	0	

Profile Gleyed From

Depth to Slowly Permeable Horizon

Wetness Class 1

Wetness Grade 2

Available Water Wheat 89 mm

Potatoes 80 mm

Moisture Deficit Wheat 97 mm

Potatoes 88 mm

Moisture Balance Wheat 8 mm

Potatoes 8 mm

Droughtiness Grade 3a (Calculated to 120 cm)

Final ALC Grade 3a

Main Limiting Factor(s) Dr

Remarks

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL													
Long Road Goodrington		Pit 6		2° SE		PGR		1100 mm		Mid Devonian Limestone													
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO		SOIL SAMPLE REF													
11/94		22/2/94		ASP 37		GC/HLJ		1545°		HLJ/18													
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form										
1	10	2 5YR46	MCL	15% HR Total (visual)	None		Good			Many fine + very fine	Calcareous (5 10%)	None	Clear smooth										
2	25	2 5YR46	MCL	43% >2cm 19% <2cm 62% HR Total (Seive + displacement)	None	Determined by stones	Good (between stones)	M		Common very fine	Very calcareous (>10%)	None	Abrupt smooth										
3	120+	2 5YR46		>70% HR Total (visual) Bedrock			Good (between stones)	M		Few very fine	Calcareous (5 10%)	None											
Profile Gleyed From				Available Water				Wheat				32 mm				Final ALC Grade				4			
Depth to Slowly Permeable Horizon								Potatoes				30 mm				Main Limiting Factor(s)				Droughtiness			
Wetness Class				1				Moisture Deficit				Wheat				97 mm				Remarks			
Wetness Grade				2								Potatoes				88 mm							
				Moisture Balance				Wheat				-65 mm				Dug to 45 cm SOIL DEPTH (25 cm) Grade 3B Top 25 cm STONES (37%) Grade 5							
								Potatoes				58 mm											
				Droughtiness Grade								4 Calculated to 120 cm											

SITE NAME		PROFILE NO	SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL				
Long Road Goodrington		Pit 7	4° North		Ploughed		1100mm		Igneous Tuffs Shalsteins etc				
JOB NO		DATE	GRID REFERENCE		DESCRIBED BY		FC Days		SOIL SAMPLE REF				
11/94		23/2/94	ASP 45/27		GC/HLJ		207		GC/150				
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	22	05YR33	MCL	5% >2cm HR 28% <2cm HR 33% Total HR (sieve + displacement)	None		>0 5%			Few fine + v fine	None	None	Clear/wavy
2	53	05YR43	MCL	40% >2cm HR 22% <2cm HR 62% Total HR (sieve + displacement)	None	WDMSAB But strongly determined by stones	>0 5% (Well fissured)	Good	Friable	Few fine + v fine	None	None	Clear/irregular
3	120+	05YR43	MCL	80% HR (visual estimate)	None	Too stony to assess	>0 5% (well fissured)			none	None	none	

Profile Gleyed From	Available Water	Wheat	69 mm	Final ALC Grade	3B
Depth to Slowly Permeable Horizon		Potatoes	61 mm		
Wetness Class	1	Moisture Deficit	Wheat	Main Limiting Factor(s) Droughtiness	
Wetness Grade	2		Potatoes		
		Moisture Balance	Wheat	Remarks	
			Potatoes		
		Droughtiness Grade	3B Calculated to 120 cm		Dug to 60 cm H3 not bedrock but large stones >6cm

SITE NAME		PROFILE NO		SLOPE AND ASPECT		LAND USE		Av Rainfall		PARENT MATERIAL			
Torbay Long Road		Pit 8 (ASP 3)		8° W		CER		1100 mm		Mid Devonian Limestone			
JOB NO		DATE		GRID REFERENCE		DESCRIBED BY		ATO		TOPSOIL SAMPLE REFERENCE			
11/94		23/2/94		SX 866592		PRW/PB		1545 C		RPT/PB/98			
FC Days								207					
Climatic Grade								1					
Horizon Number	Lowest Av Depth (cm)	Matrix and Ped Face Colours	Texture	Stoniness Size Shape Type and Field Method	Mottling Abundance Contrast Size and Colour	Structure Development Size and Shape	Pores and Fissures	Structural Condition	Consistence	Roots Abundance Size and Nature	Calcium Carbonate Content	Mangan Concs etc	Horizon Boundary Distinctness and form
1	25	25YR <sup>3/4</sup>	MSZL	10% Tot <5% >2cm estimated	None		Many	Mod	Fr	Many fine + v fine	None	None	Abrpt smooth
2	55	25YR <sup>3/4</sup>	MSL	25% >2cm 19% <2cm 44% Tot Sieved	None	Mod med ABK	Many	Good	Fr	Common fine + v fine	None	None	Gradual smooth
4	120	25YR <sup>4/3</sup>	SCL	30% >2 19% <2 49%	None	WK Med SAB	Many	Good	Fr	Few fine + v fine	None	None	

Profile Gleyed From Not gleyed

Depth to Slowly Permeable Horizon No SPL

Wetness Class I

Wetness Grade 1

Available Water Wheat 114 mm

Potatoes 84 mm

Moisture Deficit Wheat 97 mm

Potatoes 88 mm

Moisture Balance Wheat +17 mm

Potatoes -4 mm

Droughtiness Grade 2 (Calculated to 120 cm)

Final ALC Grade 3b

Main Limiting Factor(s) Slope

Remarks