

SITE NAME Lake, Barnstaple		PROFILE NO. Pit 1 (ASP 23)	SLOPE AND ASPECT 1° South	LAND USE Fallow	Av Rainfall: 943 mm ATO: 1557 day °C	PARENT MATERIAL Boulder Clay
JOB NO. 97/94		DATE 1/2/95	GRID REFERENCE SS 556 318	DESCRIBED BY PB/HLJ	FC Days: 198 Climatic Grade: 1 Exposure Grade: -	SOIL SAMPLE REFERENCES PB 233

Horizon No.	Lowest Av. Depth (cm)	Texture	Matrix (Ped Face) Colours	Stoniness: Size, Type, and Field Method	Mottling Abundance, Contrast, Size and Colour	Mangan Cones	Structure: Ped Development Size and Shape	Consistence	Structural Condition	Pores (Fissures)	Roots: Abundance and Size	Calcium Carbonate Content	Horizon Boundary: Distinctness and form
1	20	MZCL	10YR43	2% HR Total (Vis)	None	None	-	-	-	Good	CF+VF	-	Clear smooth
2	34	C	10YR64	5% HR Total (Vis)	CDMO (10YR66 75YR58)	None	WCSAB	Firm	Poor	Good	FF+VF	-	Gradual wavy
3	75+	C	10YR62	5% HR Total (Vis)	CDMO+G 10YR66 10YR72	Common	WCPr (breaking to WCAB)	Firm	Poor	Poor	FVF	-	

Profile Gleyed From: 20cm

Depth to Slowly Permeable Horizon: 35cm

Wetness Class: IV

Wetness Grade: 3b

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Available Water Wheat: 121 mm

Potatoes: 99 mm

Moisture Deficit Wheat: 97 mm

Potatoes: 90 mm

Moisture Balance Wheat: +24 mm

Potatoes: +9 mm

Droughtiness Grade: 2 (Calculated to 120 cm)

Final ALC Grade: 3b

Main Limiting Factor(s): Wetness

Remarks:

Stones in H2 + H3 mainly >2cm.

SITE NAME		PROFILE NO.	SLOPE AND ASPECT	LAND USE	Av Rainfall: 943 mm	PARENT MATERIAL	
Lake, Barnstaple		Pit 2 (ASP 13)	6° E	PGR	ATO: 1557 day °C	Shale	
JOB NO.		DATE	GRID REFERENCE	DESCRIBED BY	FC Days: 198	SOIL SAMPLE REFERENCES	
97/94		1/2/95	SS 557 570	HLJ/PB	Climatic Grade: 1	PB 234	
					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	30	MCL	10YR44	5% HR (Vis)	0	0	-	-	-	G	MF, VF	-	Gradual smooth
2	70	HCL	10YR54	10% HR (Vis)	0	0	MMSAB	Fr	G	G	CF, VF	-	Gradual wavy
3	90	C	75YR64	60% ZR (S+D)	0	0	Too stony	-	M(Ass)	G	FVF	-	

Profile Gleyed From: Not gleyed

Depth to Slowly Permeable Horizon: NA

Wetness Class: I

Wetness Grade: 2

Available Water Wheat: 127 mm
Potatoes: 127 mm

Moisture Deficit Wheat: 97 mm
Potatoes: 90 mm

Moisture Balance Wheat: +29 mm
Potatoes: +27 mm

Droughtiness Grade: 2 (Calculated to 90 cm)

Final ALC Grade: 2

Main Limiting Factor(s): WK

Remarks:

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SOIL PLASTICITY RECORDING SHEET

ANNEX 2

SITE DATA

<u>Grid Ref</u> SS 5532	<u>Site Name</u> Lake, Barnstaple	<u>LPA</u> North Devon DC
<u>AAR</u> 943	<u>ATO</u> 1557	<u>FCD</u> 196
	<u>MD (wheat)</u> 97	<u>MD (potatoes)</u> 90

SOIL PIT DATA

<u>PIT ONE</u> (ASP 23) SOIL SERIES Hallsworth 2				<u>PIT TWO</u> (ASP 13) SOIL SERIES Manod			<u>PIT THREE</u> SOIL SERIES		
DEPTH	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS	TEXTURE	PLASTIC Y/N	COMMENTS
10 cm	HCL	Y	Good worm	MCL	N	Ball, no worm			
20 cm	HCL	Y	“	MCL	N	“			
30 cm	C	Y	“	HCL	Y	Worm			
40 cm	C	Y	“	HCL	Just	“			
50 cm	C	Y	“	HCL	Y	“			
60 cm	C	Y	“	HCL	Y	“			

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