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BASINGSTOKE AND DEANE BOROUGH LOCAL PLAN SITE 20: WORTINGWOOD FARM WORTING AGRICULTURAL LAND CLASSIFICATION ALC MAP AND REPORT JUNE 1993

AGRICULTURAL LAND CLASSIFICATION

BASINGSTOKE AND DEANE BOROUGH LOCAL PLAN

Site 20: Wortingwood Farm, Worting

1. SUMMARY

- 1.1 In May 1993, an Agricultural Land Classification (ALC) survey was made on approximately 102 hectares of land at Worting to the west of Basingstoke in Hampshire.
- 1.2 The work was conducted by members of the Resource Planning Team in the Guildford Statutory Group of ADAS in response to a commission by MAFF's Land Use Planning Unit to provide information on the quality of agricultural land affected by proposals for development in the Basingstoke and Deane Borough Local Plan.
- 1.3 The classification has been made using MAFF's revised guidelines and criteria for grading the quality of agricultural land (MAFF, 1988). These guidelines provide a framework for classifying land according to the extent to which its physical or chemical characteristics impose long-term limitations on its use for agriculture.
- 1.4 The fieldwork was carried out with an observation density of approximately one per hectare. A total of 102 borings and six soil pits were examined.
- 1.5 The table below provides the details of the grades found across the site. The majority of the land is classified as good quality. The key limitation is droughtiness.

Table 1 : Distribution of Grades and Subgrades

Grade	<u>Area (ha)</u>	<u>% of Site</u>	<pre>% Total Agricultural Land</pre>
2 3a 3b Total agricultural area	14.02 84.10 <u>2.90</u> 101.02	13.7 82.3 2.8	13.9 83.3 <u>2.8</u> 100
Woodland Urban Agricultural Buildings Total area of site	0.05 0.97 <u>0.16</u> 102.2	0.06 0.97 <u>0.17</u> 100	

- 1.6 The distribution of the ALC grades is shown on the attached map. The information is presented at a scale of 1:10,000. It is accurate at this level but any enlargement would be misleading. This map supersedes any previous ALC information for this site.
- 1.7 At the time of survey the land use on the site was in a combination of oilseed rape, cereal crops, pasture and rough grassland.

1.8 A general description of the grades and sub-grades is provided as an appendix. The main classes are described in terms of the type of limitation that can occur, the typical cropping range and the expected level and consistency of yield.

2. <u>CLIMATE</u>

- 2.1 The climatic criteria are considered first when classifying land as climate can be overriding in the sense that severe limitations will restrict land to low grades irrespective of favourable site or soil conditions.
- 2.2 The main parameters used in the assessment of the overall climatic limitation are annual average rainfall, as a measure of overall wetness, and accumulated temperature, as a measure of the relative warmth of a locality.
- 2.3 A detailed assessment of the prevailing climate was made by interpolation from a 5km gridpoint dataset (Met. Office, 1989). The details are given in the table below and these show that there is no overall climatic limitation affecting the site.
- 2.4 No local climatic factors such as exposure or frost risk affect the site.

Table 2 : Climatic Interpolations

Grid Reference :	SU 605 522	SU 607 528	SU 608 537
Altitude (m) :	110	120	135
Accumulated Temperature (days) :	1409	1397	1380
Average Annual Rainfall (mm) :	795	797	805
Field Capacity (days) :	172	171	171
Moisture Deficit, Wheat (mm) :	97	96	94
Moisture Deficit, Potatoes (mm) :	87	85	. 83
Overall Climatic Grade :	1	1	1

- 3. <u>RELIEF</u>
- 3.1 Land within the survey area lies between 105 and 135 m AOD, overall rising gently from the south to the north. Within the site are significant relief features, consisting of ridges and hollows as evidence of a pre-existing large scale natural drainage system. However at no point within the site does gradient or altitude present a limitation to land quality.

4. <u>GEOLOGY AND SOIL</u>

- 4.1 The relevant geological sheet (British Geological Survey (1981), Sheet 284, 1:50000) for the site, shows the underlying geology to be almost entirely Cretaceous Upper Chalk, with small areas of clay with flints on crests to the west of the site.
- 4.2 The soil types occurring on the site as shown by the Soil Survey Map of South East England (SSEW, 1983, 1:250000), are Andover 1 Association, shallow, well drained silty soils over chalk, on slopes

and deeper though similar textures in valley bottoms, these occurring where chalk underlies the site. A small area of Carstens Association soils also occur approximately where the underlying geology is clay with flints. These soils are described as either fine silty over clayey or clayey and fine silty soils, often very flinty. Detailed field examination broadly confirmed these descriptions.

5. AGRICULTURAL LAND CLASSIFICATION

- 5.1 Table 1 provides the details of the area measurements for each grade and the distribution of each grade is shown on the attached ALC map.
- 5.2 The location of the soil observation points is shown on the attached sample point map.

5.3 <u>Grade 2</u>

Land of this quality is mapped in two blocks. The larger area in the south east of the site occurs within a minor dry valley feature, the smaller area in the extreme south occupies gentle slopes on the lowest land on the site. The soils observed in the large area consist of a very slightly stony (up to 5% flints, all <2 cm), calcareous silty clay loam topsoil, over similarly textured though slightly stony (up to 12% flints) calcareous subsoil, containing increasing quantities of small weathered chalk fragments (up to 50%), passing to pure chalk between 50 and 85 cm. From an observation pit dug in this area it was found that the vegetation was only able to root a short distance into the chalk (c. 10cm when pure chalk was encountered at 85 cm). This results in a slight droughtiness limitation caused by restricted water availability in the profile.

The smaller area in the extreme south of the site was found to have different soils consisting of a slightly stony (12% flints, 8% >2 cm) calcareous medium silty clay loam topsoil, overlying similarly textured though moderately stony (20% flints) calcareous upper subsoils passing to a moderately stony (up to 30% chalk fragments) calcareous medium silty clay loam lower subsoil. This soil is therefore limited by topsoil stone content (12% flints, 8% >2 cm), which acts as a slight impediment to cultivation, restricting the flexibility of the land to Grade 2.

5.4 Grade 3A

Land of this quality covers the majority of the surveyed area, mapped as a single block from the south to the north. The soils observed in this area consist of a slightly stony (up to 10% (5% > 2 cm) flints, in addition to rare weathered chalk fragment inclusions (up to 10% where present)), calcareous silty clay loam over either, a slightly to very stony (up to 40% chalk fragments) calcareous silty clay loam passing to pure chalk between 30 and 45 cm, or passing directly to pure chalk beneath the topsoil between 24 and 40 cm. From descriptions of 5 soil observation pits dug in this map unit, it was found that vegetation was able to root into the chalk between 35 and 40 cm. This restricts the available water in the profile. Occasional profiles were impenetrable due to a higher proportion of flints (up to 10%) in

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the subsoil. Rare profiles were of a higher quality within this grade unit. These cases were of an insufficient distribution to justify separate mapping.

5.5 <u>Grade 3B</u>

Land of this quality covers a small area (<3%) of the site in 2 units to the west corresponding in part to the areas mapped as Clay With Flints on the geology map (BGS, 1981). The soils contained within this unit consist of a very slightly stony (<5% flints) non-calcareous clay or silty clay topsoil over a gleyed and slowly permeable stoneless to very slightly stony non-calcareous clay subsoil to depth. This causes a soil wetness problem within these profiles adversely affecting plant growth and/or cultivation timings, such that Subgrade 3B is appropriate here.

- 5.6 The areas marked as Urban include two metalled tracks running across the site to Wortingwood Farm and a cottage with its grounds.
- 5.7 The area marked as Non-agricultural is a small area of dense deciduous woodland at a field boundary.

ADAS Ref: 1501/036/93

MAFF Ref: EL 15/144

Resource Planning Team Guildford Statutory Group ADAS Reading

DESCRIPTION OF THE GRADES AND SUBGRADES

Grade 1 : Excellent Quality Agricultural Land

Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft, fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

Grade 2 : Very Good Quality Agricultural Land

Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural or horticultural crops can usually be grown but on some land on the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

Grade 3 : Good To Moderate Quality Agricultural Land

Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. When more demanding crops are grown yields are generally lower or more variable than on land in grades 1 and 2.

Sub-grade 3A : Good Quality Agricultural Land

Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

Sub-grade 3B : Moderate Quality Agricultural Land

Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass, or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

Grade 4 : Poor Quality Agricultural Land

Land with severe limitations which significantly restrict the range of crops and/or the level of yields. It is mainly suited to grass with occasional arable crops (eg. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. the grade also includes very droughty arable land.

Grade 5 : Very Poor Quality Agricultural Land

Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

Urban

Built-up or 'hard' uses with relatively little potential for a return to agriculture : housing, industry, commerce, education, transport, religious buildings, cemeteries. Also, hard-surfaced sports facilities, permanent caravan sites and vacant land; all types of derelict land, including mineral workings which are only likely to be reclaimed using derelict land grants.

Non-agricultural

'Soft' uses where most of the land could be returned relatively easily to agriculture, including : private parkland, public open spaces, sports fields, allotments and soft-surfaced areas on airports/airfields. Also active mineral workings and refuse tips where restoration conditions to 'soft' after-uses may apply.

Woodland

Includes commercial and non-commercial woodland.

Agricultural Buildings

Includes the normal range of agricultural buildings as well as other relatively permanent structures such as glasshouses. Temporary structures (eg. polythene tunnels erected for lambing) may be ignored.

Open Water

Includes lakes, ponds and rivers as map scale permits.

Land Not Surveyed

Agricultural land which has not been surveyed.

Where the land use includes more than one of the above, eg. buildings in large grounds, and where map scale permits, the cover types may be shown separately. Otherwise, the most extensive cover type will be shown.

REFERENCES

* British Geological Survey (1981), Sheet No. 284, Basingstoke. 1:50,000

* MAFF (1988), Agricultural Land Classification of England And Wales : Revised guidelines and criteria for grading the quality of agricultural land.

* Meteorological Office (1989), Climatological Data for Agricultural Land Classification.

* Soil Survey of England and Wales (1983), Sheet No. 6, Soils of South East England, 1:250000

* Soil Survey of England and Wales (1984), Soils and their use in South East England. Bulletin No. 15.

APPENDIX III

DEFINITION OF SOIL WETNESS CLASSES

Wetness Class I

The soil profile is not wet within 70cm depth for more than 30 days in most years.

Wetness Class II

The soil profile is wet within 70cm depth for 31-90 days in most years or, if there is no slowly permeable layer within 80cm depth, it is wet within 70cm for more than 90 days, but not wet within 40cm depth for more than 30 days in most years.

Wetness Class III

The soil profile is wet within 70cm depth for 91-180 days in most years or, if there is no slowly permeable layer within 80cm depth, it is wet within 70cm for more than 180 days, but only wet within 40cm depth for 31-90 days in most years.

Wetness Class IV

The soil profile is wet within 70cm depth for more than 180 days but not wet within 40cm depth for more than 210 days in most years or, if there is no slowly permeable layer within 80cm depth, it is wet within 40cm depth for 91-210 days in most years.

Wetness Class V

The soil profile is wet within 40cm depth for 211-335 days in most years.

Wetness Class VI

The soil profile is wet within 40cm depth for more than 335 days in most years.

(The number of days is not necessarily a continuous period. 'In most years' is defined as more than 10 out of 20 years.)

APPENDIX IV

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents :

- * Soil Abbreviations : Explanatory Note
- * Soil Pit Descriptions
- * Database Printout : Boring Level Information
- * Database Printout : Horizon Level Information

SOIL PROFILE DESCRIPTIONS : EXPLANATORY NOTE

Soil pit and auger boring information collected during ALC fieldwork is held on a database. This has commonly used notations and abbreviations as set out below.

Boring Header Information

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1. GRID REF : national grid square and 8 figure grid reference.

2. USE : Land use at the time of survey. The following abbreviations are used.

ARA : Arable WHT : Wheat BAR : Barley CER : Cereals OAT : Oats MZE : Maize **OSR** : Oilseed rape BEN : Field Beans FCD : Fodder Crops BRA : Brassicae POT : Potatoes SBT : Sugar Beet LIN : Linseed FRT : Soft and Top Fruit HRT : Horticultural Crops PGR : Permanent Pasture LEY : Ley Grass **RGR : Rough Grazing** SCR : Scrub CFW : Coniferous Woodland DCW : Deciduous Woodland HTH : Heathland BOG : Bog or Marsh FLW : Fallow PLO : Ploughed SAS : Set aside OTH : Other

3. GRDNT : Gradient as measured by a hand-held optical clinometer.

4. GLEY/SPL : Depth in cm to gleying or slowly permeable layers.

5. AP (WHEAT/POTS) : Crop-adjusted available water capacity.

6. MB (WHEAT/POTS) : Moisture Balance.

7. DRT : Best grade according to soil droughtiness.

8. If any of the following factors are considered significant, an entry of 'Y' will be entered in the relevant column.

MREL : Microrelief limitation FLOOD : Flood risk EROSN : Soil erosion risk EXP : Exposure limitation FROST : Frost DIST : Disturbed land CHEM : Chemical limitation

9. LIMIT : The main limitation to land quality. The following abbreviations are used.

OC : Overall ClimateAE : AspectEX : ExposureFR : Frost RiskGR : GradientMR : MicroreliefFL : Flood RiskTX : Topsoil TextureDP : Soil DepthCH : ChemicalWE : WetnessWK : WorkabilityDR : DroughtER : Soil Erosion RiskWD : Combined Soil Wetness/DroughtinessST : Topsoil Stoniness

Soil Pits and Auger Borings

1. TEXTURE : soil texture classes are denoted by the following abbreviations.

S: SandLS: Loamy SandSL: Sandy LoamSZL: Sandy Silt LoamCL: Clay LoamZCL: Silty Clay LoamSCL: Sandy Clay LoamC: ClaySC: Sandy ClayZC: Silty ClayOL: Organic LoamP: PeatSP: Sandy PeatLP: Loamy PeatPL: Peaty LoamPS: Peaty SandMZ: Marine Light SiltsP: PeatSP: Sandy Peat

For the sand, loamy sand, sandy loam and sandy silt loam classes, the predominant size of sand fraction will be indicated by the use of prefixes.

F : Fine (more than 66% of the sand less than 0.2mm)

M : Medium (less than 66% fine sand and less than 33% coarse sand)

C : Coarse (more than 33% of the sand larger than 0.6mm)

The clay loam and silty clay loam classes will be sub-divided according to the clay content.

M : Medium (<27% clay) H : Heavy (27-35% clay)

2. MOTTLE COL : Mottle colour

3. MOTTLE ABUN : Mottle abundance, expressed as a percentage of the matrix or surface described.

F: few <2% C: common 2-20% M: many 20-40 VM: very many 40%+

4. MOTTLE CONT : Mottle contrast

F: faint - indistinct mottles, evident only on close inspection
D: distinct - mottles are readily seen
P: prominent - mottling is conspicuous and one of the outstanding features of the horizon

5. PED. COL : Ped face colour

6. STONE LITH : One of the following is used.

HR : all hard rocks and stonesMSST : soft, medium or coarse grained sandstoneSI : soft weathered igneous or metamorphicSLST : soft oolitic or dolimitic limestoneFSST : soft, fine grained sandstoneZR : soft, argillaceous, or silty rocksCH : chalkGH : gravel with non-porous (hard) stonesGS : gravel with porous (soft) stones

Stone contents (>2cm, >6cm and total) are given in percentages (by volume).

7. STRUCT : the degree of development, size and shape of soil peds are described using the following notation:

- degree of development WK : weakly developed MD : moderately developed ST : strongly developed

- <u>ped size</u> F : fine M : medium C : coarse VC : very coarse

<u>ped shape</u> S : single grain M : massive GR : granular AB : angular blocky SAB : sub-angular blocky PR : prismatic
PL : platy

8. CONSIST : Soil consistence is described using the following notation:

L: loose VF : very friable FR : friable FM : firm VM : very firm EM : extremely firm EH : extremely hard

9. SUBS STR : Subsoil structural condition recorded for the purpose of calculating profile droughtiness.

G: good M: moderate P: poor

10. POR : Soil porosity. If a soil horizon has less than 0.5% biopores >0.5 mm, a 'Y' will appear in this column.

11. IMP : If the profile is impenetrable a 'Y' will appear in this column at the appropriate horizon.

12. SPL : Slowly permeable layer. If the soil horizon is slowly permeable a 'Y' will appear in this column.

13. CALC : If the soil horizon is calcareous, a 'Y' will appear in this column.

14. Other notations

APW : available water capacity (in mm) adjusted for wheat APP : available water capacity (in mm) adjusted for potatoes MBW : moisture balance, wheat MBP : moisture balance, potatoes

SOIL PIT DESCRIPTION

Site Name : WORTING	BASING LP S 20	Pit Number : 1P
Grid Reference: SU6	Accumulato Field Cap Land Use	nnual Rainfall : 797 mm ed Temperature : 1397 degree days acity Level : 171 days : Oilseed Rape Aspect : degrees SE
HORIZON TEXTURE O- 24 MZCL 24- 64 CH	COLOUR STONES : 10YR43 00 5 00CH00 00 0	>2 TOT.STONE MOTTLES STRUCTURE 10 0
Wetness Grade : 1	Wetness C Gleying SPL	lass : I : cm : No SPL
Drought Grade : 3A	-	mm MBW : −19 mm. mm MBP : ~4 mm

FINAL ALC GRADE : 3A MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

.

Site Nam	e : WORTING	BASING	LP S 20		Pit Numb	er: 2P	
Grid Ref	erence: SUG	0385278	Accum Field Land	ulated Capací Use	Temperatu ty Level	re : 1397 : 171 c : Cerea	degree days lays
HORIZON	TEXTURE	COLOUR		NES 52	TOT STON	F MOTTLES	STRUCTURE
0- 25	MZCL	10YR43		0	4		JIKOCIOKE
				0	-		
25- 30	HZCL	-		-	10		
30- 62	СН	00CH00	00	0	0		
Wetness	Grade : 1		Wetne: Gleyi SPL	ng	s:I : :Na	cm o SPL	
Drought (Grade : 3A			82 mm 86 mm	MBW : · MBP :	-14 mm 1 mm	

FINAL ALC GRADE : 3A MAIN LIMITATION : Droughtiness

.

SOIL PIT DESCRIPTION

Site Name : WORTING BAS	ING LP S 20	Pit Number :	3P							
Grid Reference: SU60085213 Average Annual Rainfall : 797 mm Accumulated Temperature : 1397 degree days Field Capacity Level : 171 days Land Use : Cereals Slope and Aspect : 02 degrees S										
0- 24 MZCL 10Y	LOUR STONES >2 R42 CO O HOO CO O	TOT.STONE MOT 10 0	TLES STRUCTURE							
Wetness Grade : 1	Wetness Class Gleying SPL	: 1 : cm : No SPL								
Drought Grade : 3B	APW : 75 mm APP : 77 mm	МВ₩ : -21 пл МВР : -8 пл								

FINAL ALC GRADE : 3B MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

.

Site Name : WORTING BASING	LPS20 Pit Number	:	4P
Grid Reference: SU60035223	Average Annual Rainfall	;	797 mm
	Accumulated Temperature	:	1397 degree days
	Field Capacity Level	:	171 days
· ·	Land Use	;	Cereals
	Slope and Aspect	:	02 degrees S

HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE	MOTTLES	STRUCTURE
0- 26	С	10YR43 00	0	5		
26- 50	С	10YR56 00	0	50		
50- 60	СН	00CH00 00	0	0		
Wetness G	irade : 3A	G	etness Clas leying PL		cm SPL	

Drought Grade : 3A	APW : 80 mm	MBW :	-16 mm
•	APP : 83 mm	MBP :	-2 mm

FINAL ALC GRADE : 3A MAIN LIMITATION : Droughtiness

SOIL PIT DESCRIPTION

Site Name	: WORTING	G BASING LP	S 20	Pit Number	: 5P	
Grid Refe	rence: SUG		lverage Annu			
			ccumulated	•		•
			ield Capaci	÷		-
			and Use		: Cereal	-
		S	Slope and As	pect	: 02 deg	rees E
HORIZON	TEXTURE	COLOUR	STONES >2	TOT. STONE		STRUCTURE
					MUTTES	STRUCTURE
0- 28	HZCL	10YR42 00	0	4		
28- 48	HZCL		0	5		MCSAB
48- 73	HZCL	10YR43 00	0	12		MCSAB
73- 85	HZCL	10YR44 00	0	50		
85- 95	СН	00CH00 00	0	0		
Wetness G	rade : 2	ĥ	letness Clas	s:I		
	• •		leying	-	Ċm	
			SPL	: No		
Drought Gr	rade : 2	۵	.P₩ : 124mm	MBW : 2	8 mm	

FINAL ALC GRADE : 2 . MAIN LIMITATION : Workability

SOIL PIT DESCRIPTION

APP: 117mm MBP:

32 mm

Site Name	e: WORTING	G BASING LP	s 20	Pit Number	: 6P			
Grid Reference: SU60185192 Average Annual Rainfall : 797 mm Accumulated Temperature : 1397 degree days Field Capacity Level : 171 days Land Use : Rough Grazing Slope and Aspect : degrees								
HORIZON 0- 25 25- 40 40- 70	TEXTURE MZCL MZCL MZCL	COLOUR 10YR42 00 10YR43 00 10YR64 81	STONES >2 8 0 0	TOT. STONE 12 20 20	MOTTLES	STRUCTURE		

0

30

Wetness Grade : 1	Wetness Class Gleying SPL	:	I cm No SPL
Drought Grade : 2		3W : 3P :	

10YR64 81

FINÀL ALC GRADE : 2 MAIN LIMITATION : Droughtiness

MZCL

70- 90

LIST OF BORINGS HEADERS 20/09/93 WORTING BASING LP S 20

s S	AMPI	LE	A	SPECT				WET/	VESS	-WH	EAT-	-P0	TS-	м.	REL	EROSN	FRO	ST	CHEM	ALC	
).	GRID REF			GRDNT	GLEY			GRADE				MB	DRT	FLOOD		XP	DIST	LIMIT		COMMENTS
			002		G (12)		0, 2	02/100				•••			1 2000	-		0101			00,112,110
_	1	SU60805370	OSR					1	1	79	-17	84	-1	3A					DR	3A	ROOT 40 AS 1P
	1P	SU60755360	OSR	SE				1	1	77	-19	81	-4	3A					DR	3A	ROOT 40
J	2	SU60905370	OSR	SE	03			1	1	79	-17	83	-2	3A					DR	3A	ROOT 40 AS 1P
,	2P	SU60385278	CER	NE	03			1	1	82	-14	86	1	3A					DR	3A	R00T 32
	3	SU60605360	OSR	Ν.				1	1	81	-15	86	1	3A					DR	3A	ROOT 40 AS 1P
6																				•	
	3P	SU60085213	CER	s	02			1	1	75	-21	77	-8	38					DR	3B	ROOT 34
-	4	SU60705360	OSR					1	1	82	-14	86	1	ЗА					DR	3A	ROOT 40 AS 1P
	4P	SU60035223	CER	S	02			1	3A	80	-16	83	-2	3A					DR	3A	PIT 65
	5	SU60805360	OSR	N	02			1	1	82	-14	87	2	3A					DR	3A	ROOT 40 AS 1P
	5P	SU60155235	CER	E ·	02			1	2	124	28	117	32	2					MK	2	PIT 78CM
	6	SU60905360	OSR	SE	03			1	1	80	-16	84	-1	3A					DR	3A	ROOT 40 AS 1P
-	6P	SU60185192	RGR					1	1	115	19	110	25	2					DR	2	PIT 90
	7	SU61005360	OSR	SE	03			1	1	81	-15	86	1	3A					DR	3A	ROOT 40 AS 1P
	8	SU60505350	OSR					1	1	107	11	107	22	2					DR	2	IMP 55 SEE 2P
	9	SU60605350	OSR	N	02			1	1	80	-16	84	-1	3A					DR	3A	R00T 32 AS 2P
-																					
	۱0	SU60705350	OSR					1	1	94	-2	99	14	3A					DR	3A	ROOT 32 AS 2P
	11	SU60805350	OSR	E	02			1	1	84	-12	89	4	3A					DR	3A	ROOT 40 AS 1P
	12	SU60905350	PLO	NE	01			1	1	87	-9	93	8	3A					DR	3A	ROOT 40 AS 1P
	3	SU61005350	OSR	SE	03		•	1	1	84	-12	90	5	3A					DR	ЗA	ROOT 40 AS 1P
•	4	SU60505340	OSR					1	1	91	-5	97	12	3A					DR	3A	ROOT 32 AS 2P
•	15	SU60605340	OSR	N	02			1	1	87	-9	92	7	3A					DR	3A	ROOT 40 AS 1P
	16	SU60705340	OSR					1	1	87	-9	92	7	3A					DR	ЗA	ROOT 40 AS 1P
	17	SU60805340	OSR	Е	02			1	1	100	4	100	15	3A					DR	3A	ROOT 32 AS 2P
	8	SU60905340	PLO	NE	01			1	1 ·	81	-15	85	0	3A		,			DR	3A	ROOT 40 AS 1P
	19	SU61005340	OSR	Ε	02			1	1	77	-19	77	-8	3A					DR	3A	IMP 47 SEE 2P
:	20	SU60505330	OSR					1	1	85	-11	86	1	3A					DR	3A	IMP 50 SEE 4P
	21	SU60605330		N	01			1	2	79	-17	83	-2						DR	3A	ROOT 40 AS 1P
	22	SU60705330						1	1	88	-8		9	ЗA					DR	3A	ROOT 40 AS 1P
		SU60805330			03	036 (036	4	38	83	-13		-2	3A					WE	38	SPL 36
-	24	SU60905330	OSR	S	01			1	1	88	-8	93	8	3A					DR	3A	IMP 35 SEE 1P
									•	<u></u>		•	_								
		SU60505320		_	• •			1	3A	80	-16		-3						DR		IMP 45 SEE 1P
	26	SU60605320			02	025 (4	3B (81	-15			3A					WE	3B	SPL 25
	27	SU60705320			01	030 (030	4	3B	138		114	29						WE		SPL 30
	28	SU60805320			04			1	1	85	-11			3A					DR	3A	ROOT 40 AS 1P
	29	SU60905320	OSR	S	01			1	1	88	-8	93	8	3A					DR	3A	ROOT 32 AS 2P
									•	00	_	•	-	. .					- -	. .	
		SU60405310						1	2	89	-7			3A					DR	3A	ROOT 32 AS 2P
	31	SU60505310		~		030 (730	4	3B	125		102	17						WE	38	SPL 30
-		SU60605310			02			1	2	97 02		102	17						DR	3A 24	ROOT AS 4P
		SU60705310			02			1	2	92	-4		13						DR	3A	ROOT 32 AS 2P
	34	SU60805310	USR	SE	03			1	1	88	-8	94	9	ЗА					DR	3A	ROOT 40 AS 1P
-	C	SUC0005310	060	c	01			1	1	04	10	20	А	24					00	24	DOOT 40 40 10
		SU60905310			01			1	1	84 89	-12			3A 24					DR	3A	ROOT 40 AS 1P
	36	SU60605300	USK	\$	03			1	1	88	-8	33	ö	ЗA					DR	3A	IMP 60 SEE 4P

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LIST OF BORINGS HEADERS 20/09/93 WORTING BASING LP S 20

SAMPI	F	۵	SPECT				WFT	NESS	-WH	EAT-	_PC	TS-		M. REL	EROSN	FR	DST	CHEM	ALC	
NO.	GRID REF			GRONT	GLEY	SPL		GRADE			AP		DRT			EXP	DIST	LIMIT		COMMENTS
		002				0.6	021100			1.0		,	5		-		2101	21.12.		
37	SU60705300	OSR	SE	01			1	2	92	-4	97	12	3A					DR	3A	IMP 40 SEE 🏊
38	SU60805300	OSR	SE	02			1	1	85	-11	90	5	· 3A					DR	3A	ROOT 40 AS
39	SU60505290	OSR	SE	02			1	1	87	-9	92	7	ЗA					DR	3A	ROOT 40 AS 📅
40	SU60605290	OSR	SE	02			1	1	83	-13	88	3	3A-					DR	3A	ROOT 40 AS 1P
41	SU60705290	OSR	SE	02			1	1	70	-26	70	-15	3B					DR	38	IMP 50 SEE
42	SU60805290	OSR	SE	02			1	1	84	-12		4	ЗА					DR	3A	ROOT 40 AS 1P
43	SU60005280	CER			050	050	3	3B	94	-2	106	21	3A					WE	3B	SPL 50
44	SU60105280	CER	SE	[.] 02			1	3A	79	-17	84	-1	3A					DR	3A	ROOT 35 AS
45	SU60205280	CER	S	03			1	1	77	-19	80	-5	ЗА					DR	3a	ROOT 35 AS 3P
46	SU60305280	CER	SE	03			1	1	83	-13	87	2	3A					DR	3A	ROOT 35 AS 3P
47	SU60405280	CER	SE	02		•	1	1	92	-4	98	13	34					DR	3A	ROOT 32 AS 🎩
48	SU60505280			01			1	1	107	11	116	31	2					DR	2	ROOT 10 AS 4P
49	SU60605280			01			1	1	85	-11	89	4	<u>,</u> 3A					DR	3A	ROOT 35 AS
50	SU60705280	OSR	S	02			1	1	81	-15	84	-1	3A					DR	3A	ROOT 35 AS 📕
51	SU60805280	OSR	SE	03			1	1	51	-45	51	-34	38					DR	3B	IMP 30 SEE 2P
52	SU60005270			02			1	2	76	-20		-6	3a					DR		ROOT 32 AS
53	SU60105270			03			1	2	92	-4		12	3A					DR		ROOT 32 AS 2P
54	SU60205270			03		•	1	1	104		111	26	2						2	IMP 75 SEE 5P
55	SU60305270			02			1	1	80	-16		-1	3A					DR	3A	IMP 30 SEE
56	SU60405270	CER	SE	02			1	1	82	-14	85	0	3A					DR	3A	IMP 35 SEE 🗶
				••								~~	•							
57	SU60505270			01			1	1	105		112	27	2						2	IMP 65 SEE
58	SU60605270			02			1	1	86	-10		6	3A					DR		ROOT 35 AS
59	SU60705270			02			1	1	91	-5		12	3A					DR	3A	ROOT 32 AS 3P
60 61	SU60005260			02			1	2	78 05	-18		-4	3A 24					DR	34	ROOT 35 AS 3P
61	SU60105260	UER	SE	02		•	1	1	85	-11	89	4	3A					DR	3A	ROOT 35 AS
62	SU60205260	CED	ç	02			1	1	89	-7	04	9	3A					DR	3A	DOD 22 AS 20
63	SU60305260			02			1	1	83	-13		2	3A					DR	3A 3A	ROOT 32 AS 2P
64	SU60405260			01			1	,	92	-13		10	3A					DR		IMP 52 SEE
•	SU60505260			02			-	.1	107		93 111	26	2					DR	2	IMP BO SEE 5P
	SU60605260			03			1	1	82	-14			<u>З</u> А					DR		ROOT 35 AS 3
~~	200000000000000000000000000000000000000		•	v 0			•			- 17		•	54						-974	
67	SU60705260	CER	s	02			ı	1	79	-17	82	-3	3A					DR	ЗА	ROOT 35 AS SP
68	SU60005250			02			, 1	2	83	-13		2	3A							ROOT 35 AS 3P
	SU60105250			01			1	1	78	-18		-4	3A							ROOT 35 AS
	SU60205250			02				1	77	-19		-5	3A					DR		ROOT 35 AS
	SU60305250			01			1	1	91	-5			3A					DR		IMP 52 SEE 4P
		•=	•	• ·			·	•	•••	-		•	••••							
72	SU60405250	CER	SE	01			1	1	85	-11	90	5	3A					DR	ЗА	IMP 35 SEE
	SU60505250			01			1	1	110		114	29	2						2	ROOT 10 AS 5P
	SU60605250			02			1		41	-55		-44	4							IMP 25 SEE 3P
	SU60005240			02			1	2	93	-3		12	3A							ROOT 32 AS
	SU60105240			02			1	1	51	-45		-34	3B							IMP 30 SEE
77	SU60205240	CER	s	02			1	1	97	1	104	19	3A					DR	3A	IMP 40 SEE
	SU60305240			02			1	1	96		101	16								IMP 55 SEE
																				🚽

LIST OF BORINGS HEADERS 20/09/93 WORTING BASING LP S 20

	SAMO	LE	۸	SPECT					NESS	_64	FAT_	_00	-21	М.		EROSN	FROST	r	CHEM	ALC	
2	NO.				CODAT	CLEV.			GRADE		-	AP		DRT	FLOOD			DIST	LIMIT	ALC	COMMENTS
	NU.	GRID REF	USE		GRUNT	GLCT	SPL	CLASS	GRADE	AP	MD	AF	MD	DRT	FLOOD	E.		1131	CTUITI		COMPENIS
	79	SU60405240	CER	SE	01			1	1	93	-3	96	11	ЗA					DR	ЗА	IMP 55 SEE 4P
	80	SU60505240	CER					1	1	80	-16	84	-1	3A					DR	3A	ROOT 35 AS 3P
	81	SU60605240	CER	Ε	02			1	1.	33	-63	33	-52	4					DR	38	IMP 20 SEE 3P
-	82	SU60005230	CER	NE	04	025		2	ЗВ	54	-42	54	-31	38					WE	3B	IMP 30 SEE 4P
	83	SU60105230	CER	NE	04	025		2	3B	47	-49	47	-38	3B					WE	3B	IMP 35 SEE 4P
_	84	SU60205230	CER	N	03			1	2	116	20	114	29	2					DR	2	ROOT 10 AS 5P
	85	SU60305230	CER	NE	03			1	1	96	0	98	13	3A					DR	3A	ROOT 35 AS 3P
	86	SU60405230	CER	SE	01			1	1	61	-35	61	-24	38					DR	2	IMP 35 SEE 5P
	87	SU60505230	CER	S	03			1	1	100	4	104	19	3A					DR	ЗA	ROOT 32 AS 2P
	88	SU60605230	CER	S	02			1	1	80	-16	83	-2	3A					DR	3A	ROOT 35 AS 3P
	89	SU60005220	CER	SE	02			1	ЗA	49	-47	49	-36	3B					DR	ЗA	IMP 30 SEE 4P
-	90	SU60105220	CER	Ε	02	025 (025	4	3В -	81	-15	87	2	3A					WE	3B	SPL 25
	91	SU60205220	CER	SE	02			1	ЗA	49	-47	49	-36	3B					DR	ЗA	IMP 30 SEE 4P
	92	SU60305220	CER	Ε	01			1	2	83	-13	87	2	3A					DR	3A	IMP 30 SEE 3P
	93	SU60405220	CER	NE	02			1	1	77	-19	80	-5	3A					DR	3A	IMP 30 SEE 3P
																					•
	94	SU60505220	CER	Е	01			1	1	106	10	109	24	2					DR	2	ROOT 10 AS 5P
	95	SU60105210	CER	SE	02			1	1	83	-13	88	3	3A					DR	3A	ROOT 35 AS 3P
	96	SU60205210	CER	SE	02		•	I.	1	82	-14	86	1	3A					DR	3A	ROOT 35 AS 3P
	97	SU60105200	CER	SE	02			1	1	83	-13	88	3	3A					DR	ЗA	ROOT 35 AS 3P
	98	SU60205200	CER	SE	03	•		1	1	86	-10	91	6	3A					DR	3A	ROOT 32 AS 2P
_																					
	99	SU60205190	PGR	SE	02			1	1	45	-51	45	-40	4					ST	2	IMP 25 SEE 6P
	100	SU60205180	PGR	SE	01			1	1	71	-25	71	-14	3B					ST	2	IMP 40 SEE 6P
	101	SU60235195	PGR	SE	02			1	1	54	-42	54	-31	3B					ST	2	IMP 30 SEE 6P
	102	SU60245182	PGR	SE	01			1	1	54	-42	54	-31	38					ST	2	IMP 30 SEE 6P

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COMPLETE LIST OF PROFILES 20/09/93 WORTING BASING LP S 20

				 -MOTTLE	S	PED			-5	TONES		STRUCT	/ SUE	s		
SAMPLE	DEPTH	TEXTURE	COLOUR	ABUN								CONSIS			IMP SF	L CAL
		_					-									
1	0-25	mzcl	10YR43 00							HR	8					Y
	25-65	ch	00CH00 00					0	0		0		. P			Y
18	0-24	mzcl	10YR43 00					5	0	HR	10					Y
	24-64	ch	00CH00 00					0	0		0		P			Y
2	0-24	mzc}	10YR43 00					0	0	HR	5					Y
	24-64	ch	00CH00 00					0	0		0		Ρ			Y
2P	0-25	mzcl	10YR43 00					0	0	HR	4					Y
	25-30	hzcl	10YR54 00					0	0	СН	10		М			Y
	30-62	ch	00CH00 00					0	0		0		Ρ			Ŷ
3	0-26	mzcl	10YR43 00					0	n	HR	8					Ŷ
J	26-66	ch	000000000					0	o	1115	0		P			Ý
20			100000 00					~	~	C 11	10					
3P	0-24	mzc]	10YR42 00					0		СН	10		_			Ŷ
	24-58	ch	000000000000000000000000000000000000000					0	0		0		þ		• •	Y
4	0-26	mzc1	10YR43 00					0	0	HR	3					Y
	26-66	ch	00CH00 00					0	0	HR	5		Ρ			Υ.
4P	0-26	c	10YR43 00					0	0	หล	5					Ŷ
	26-50	с	10YR56 00					0	0	СН	50		м			Ŷ
	50-60	ch	00CH00 00					0	0		0		P			Y
5	0~27	mzcl	10YR43 00					0	0	HR	8					Ŷ
	27-67	ch	00CH00 00					0	0		0		Ρ			Y
5P	0-28	hzcl	10YR42 00	•				0	0	HR	4					Ŷ
	28-48	hzcl	10YR43 00					Ó		HR		MCSAB	FR M	Y		Ŷ
	48-73	hzc1	10YR43 00					0		HR	12	MCSAB	FR M			Ý
	73-85	hzcl	10YR44 00					0		СН	50		M			Ŷ
	85-95	ch	00CH00 00					0	0		0		М			
6	0-25	mzcl	10YR43 00					n	n	HR	7					Y
•	25-65	ch	00CH00 00					0			0		P			Ŷ
6P	0-25	mzcl	10YR42 00					8	^	HR	10					V
01	0-25 25-40		10YR42 00					8 0		HR	12		м			Y
	25-40 40-70	mzcl mzcl	104R43 00 104R64 81					0		лк СН	20 20		M M			Y Y
	40-70 70-90	mzc1	107R64 81					0		СН	20 30		M			Y
-	0.00		100043 00					~	~	uв	-					
7	0-26 26-66	mzcl ch	10YR43 00 00CH00 00					0 0		HR	7 0		Ρ			Y Y
													-			·
8	0-33	mzcl	10YR44 00					0		HR	2					
	33-48	C	10YR56 00					0	0		0		M			
	48-80	ch	00CH00 00					0	<u>n</u>	HR	5		Ρ			Y

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COMPLETE LIST OF PROFILES 20/09/93 WORTING BASING LP S 20

				-	MOTTLE	S	PED		-S'	TONES	;	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY >2	>6	LITH	і тот	CONSIST	STR PO	R IMP SP	L CALC
9	0-25	mzcl	10YR43 00					0	0	HR	5				Y
-	25-30	mzcl	10YR43 00					0		СН	60		м		· Y
	30-62	ch	00CH00 00					-	0		0		P		Ŷ
	30° 02	0,1	0001100 00					· ·	Ũ		Ũ		•		•
10	0-30	mzcl	10YR43 00					0	0	СН	5				Y
	30-39	mzcl	10YR64 81				. •	0	0	СН	30		м		Y
	39-71	ch	00CH00 00					0	0	HR	5		Р		Ϋ́
		_						_	_		_				
11	0-27	mzcl	10YR43 00					0		HR	5				Y
	27-67	ch	00CH00 00					0	0		0		P '		Y
12	0-30	mzc1	10YR43 00					0	0	HR	5				Ŷ
	30-70	ch	00CH00 00					0		HR	5		Р		Ý
	23-70							v	5		5		•		1
13	0-28	mzcl	10YR43 00					0	0	HR	7				Y
	28-68	ch	00CH00 00					0	0		0		Р		Y
14	0-30	mzc]	10YR43 00					0		HR	4				Ŷ
	30-38	mzcl	10YR64 81					0		CH	40		м		٠¥
	38-70	ch	00CH00 00					0	0	HR	5		Ρ		¥
15	0-28	mzcl	10YR43 00	a -				0	D	СН	5				Y
	28-68	ch	00CH00 00					ů 0	0	011	0		Р		Ŷ
								•	•		•		•		•
16	0-29	mzcl	10YR43 00					0	0	HR	2				Y'
	29-69	ch	00CH00 00					0	0	HR	5		Ρ		Y
17	0-28	mzcl	10YR43 00					0		HR	2				Y
	28-46	mzcl	10YR44 00					0		СН	50		М		Y ·
	46-78	ch	00CH00 00					0	0		0		Р		Y
18	0-26	mzcl	10YR43 00					0	0	Сн	10				
10	26-66	ch	00CH00 00					=		HR	5		Ρ		v
	20-00							0	0	1 IA	د		F		Y
19	0-25	mzcl	10YR43 00					٥	0	HR	5				Y
	25-35	zc	10YR44 00					0 0		HR	5		м		Ý
	35-47	mzcl	10YR73 00					0		CH	40		M		Ŷ
20	0-22	mzcl	10YR43 00					0	0	СН	5				Y
	22-32	hzc]	10YR54 00					0		СН	5		м		Y
-	32-45	mzcl	10YR64 81			•		0		СН	30		М		Y
	45-55	. ch	00000000					0		HR	5		Ρ		Y
21	0-25	hac ¹	10YR43 00					•		UD	F				v
21	0-25 25-65	hzcl ch	00CH00 00					0		HR	5 5		Б		Y
	23-03	ÇII						, U	0	ארי	5		Ρ		Y
22	0-30	mzcl	10YR43 00					0	0	Сн	5				Y
	30-70	ch	00CH00 00					° O		HR	5		Р	,	Ý
	-							-	2		-		-		•

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COMPLETE LIST OF PROFILES 20/09/93 WORTING BASING LP S 20

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															1		
						MOTTLES		PED			-ST	ONES		STRUCT/	SUBS		
	SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6	LITH	тот	CONSIST	STR POR	IMP SPL	CALC
_																	
æ	23	0-26	hzc1	10YR43 00						0	0	HR	2				Y
		26-36	hzcl	10YR44 00						0	0	HR	5		м		
		36-50	с	75YR54 00			(DOMNOO	00	0	0		0		Р		
	,																
	24	0-31	mzcl	10YR43 42						0	0	HR	5				Y
		31-71	ch	00CH00 00						0	0	HR	5		Р		γ
_																	
	25	0-25	zc	10YR43 00						0	0	HR	2				Y
		25-32	zc	10YR54 00			÷			0		СН	5		м		Ŷ
		32-45	c	75YR56 00	,					0		СН	10		M		Ŷ
		45-55	cĥ	00CH00 00						0		HR	5	•	ρ		Ŷ
		40 00	CI.	000,000 00						v	Ŭ	T IIX	5		•		•
	26	0-25	zc	10YR43 00						0	n	HR	3				
	. 20	25-60	20 C	10YR63 64	75705	9 00 M			Y	0	0	TIK	0		Р	Y	
		20-00	C	101805 04	JJIKJ	0.00 11			'	U	U		U		r	1	
	27	0-30	zc	10YR42 00						0	0	СН	5				Y
•	21	30-120		75YR54 00	OOMNO	0.00.0				0	0		0		M		Ŷ
		30-120	C	751834 00	UUMINU	0.00.0				v	U		Ų		1.1		1
	28	0-28		10YR43 00						0	^	HR	5		ų		v
	20		mzcl								0	пк	0				Y
		28-68	ch	00CH00 00						0	Ų		Ų		P ,		Y
	00	0.00		104044 00	•					^	~		F		÷		
	29	0-30	mzc]	10YR44 00						0		HR	5				Ŷ
•		30-35	mzcl	10YR44 81						0		CH	20		M		Y
-		35-67	ch	00CH00 00						0	U	HR	5		Р		Ŷ
	20	A 7A		100053 00						^	~	~	~				
U	30	0-30	hzc]	10YR53 00						0		СН	5				Y
		30-35	hzc1	10YR56 00						0		CH	30		M		
×.		35-67	ch	00CH00 00						0	Ū.	HR	5		Р		Y
	~ 1	0.05	_	10/042 52		•				•	•		~				.,
•	31	0-25	ZC	10YR43 53		c				0		HR	2				Y
_		25-30	C	10YR54 00				2014100	00 V	0		HR	2		M		
		30-120	c	10YR53 52	10165	6 UU M		00MN00	00 Y	0	0		0		. P	Y	
		0.05		104040.00						~	~		-				.,
	32	0-25	hzc]	10YR43 00				2010100		0		HR	5		<u> </u>		2 Y
		25-45	c	75YR54 00			(DOMNOO	00	0	0		0		P		
		45-65	hzc1	75YR54 00						0		СН	60		M		Y
_		65-75	ch	10YR81 73						0	0		0		Р		Y
_											-		_				
	33	0-26	hzc1	10YR42 00						0		СН	5				Y
U		26-38	c	10YR43 00		6 00 C	(DOMNOO	00	0	0		0		M		Y
		38-70	ch	00CH00 00						0	0	HR	5		Р		Y
	34	0-30	mzcl	10YR43_00						0		HR	5				Y
		30-70	ch	00CH00 00						0	0		0		Р		Y
		.															
	35	0-28	mzcl	10YR52 53						0		HR	5				Y
		28-68	ch	00CH00 00						0	0	HR	5		Ρ		Y

COMPLETE LIST OF PROFILES 20/09/93 WORTING BASING LP S 20

			•														
				N	10TTLES	s	PED			-STONE	S	STRUCT/	SUB	s			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL		CONT						CONSIST			IMP	SPL	CALC
36	0-30	mzcl	10YR43 00)					0	0 HR	8			-			Y
	30-42	zc	10YR44 00)					0	0 HR	10		М				Y
	42-60	mzcl	10YR73 00	1					0	0 CH	50		М				Ŷ
37	0-28	hzc1	10YR43 00)					0	0 HR	3						Y
	28-40	zc	10YR44 54	¢.					0	0 HR	10		М				
	40-72	ch	00CH00 00)					0	0 HR	5		Ρ				Y
												•					
38	0-28	mzcl	10YR43 00)					0	0 HR	6						Y
	28-68	ch	00CH00 00)					0	0	0		Ρ				Y
39	0-29	mzcl	10YR43 00							0 CH	5						Y
	29-69	ch	00CH00 00)					0	0 HR	5		Ρ				Y
40	0-27	mzcl	10YR42 52							0 CH	5						Y
	27-67	ch	00CH00 00)					0	OHR	5		Ρ				Y
										.	_						
41	0-29	mzcl	10YR43 00							0 HR	5						Y
	29-40	mzcl	10YR73 00)					0	0 HR	5		м				Y
40	0.07	-	10,000.00	·					^	A A U	••						
42	0-27	mzcl	10YR43 00	-					0	0 CH	10						Y.
	27-67	ch	00CH00 00	,					0	0	0		Ρ				Y
43	0-30	-	100042 00	000000	00.0				ο	0 HR	F						
40	30~50	c	10YR43 00 10YR54 00			,	00MN00	00		0 HR	5		м				
	50-50 50-70	c c	107R54 00				COMNOC		0 0	0 HR	2 2		M P	Y		Y	
	50-70	C	101634 33		00 14	,	OOFINOO	00 1	Ŭ	о пк	٤		٢	,		T	
44	0-30	с	10YR43 00	1					0	0 HR	5						
••	30-65	ch	00CH00 00						õ	0	0		м				
	20 00	CII							Ŭ	•	v		••				
45	0-25	mzcl	10YR43 00	1					0	0 СН	10						Y
	25-60	ch	00CH00 00						0	0	0		ρ				Ŷ
									-	-			•				•
46	0-28	mzcl	10YR43 53	Ļ					0	0 HR	3						Y
	28-63	ch	00CH00 00						0	0	0		P				Ŷ
													-				
47	0-25	mzc]	10YR43 00)					0	0 СН	5						Y
	25-38		10YR54 00						0	0 CH	10		м				Y
	38-70	ch	00CH00 00						0	0 HR	5		Ρ				Y
48	0-28	mzcl	10YR42 00	l,					0	0 HR	3						Y
	28-62	hzcl	10YR54 00						0	0 CH	3		м				Y
	62-72	ch	00CH00 00						0	0 HR	5		Ρ				Y
49	0-30	mzc]	10YR43 53						0	0 CH	5						Y
	30-65	ch	00CH00 00						0	0 HR	5		Р				Y
50	0-27	mzcl	10YR43 00							0 HR	4					,	Y
	27-62	ch	00CH00 00						0	0	0		P				Y

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					MOTTLE	S	PED			-Stoi	VES	STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL.	GLEY	>2	>6 L	ітн тот	CONSIST	STR POR	IMP S	PL CALC	;
5 1	028	mzcl	10YR43 00						٥	он	R 10				Y	
	28-30	hzcl	10YR44 00			4				0 H			м			
									-							
52	0-25	hc1	10YR43 00	-					0	0 CI	н 7				Y	
	25-60	ch	00CH00 00						0	0	0		М			
53	0-30	hcl	10YR43 00						0	OH						
	30-40	C	10YR54 00						0	0 CI			M			
	40-72	ch	00CH00 00						. 0	0	0		м			
_ 54	0-25	mzc1	10YR43 00						0	он	R 6				Y	
	25-45	hzcl	10YR44 00						0	0 н			M		Ŷ	
	45-55	zc	10YR44 00						0	0 н	R 5		Μ			
	55-75	mzcl	10YR64 73						0	0 CI	H 50		м		Y	
55	0-27	mzcl	10YR43 53						0	0 н					Ŷ	
	27-62	ch	00CH00 00						0	0	0		Р		Y	
56	0-28	mzcl	10YR43 00						0	0 0	4 5				Y	
	28~63	ch	00CH00 00				•		ō	он			P		Ŷ	
		0.1							·	•			•		•	
57	0-42	mzcl	10YR53 00	•					0	0 CI	H 10				Y	
	42-62	mzc1	10YR64 81						0	0 CI	H 40		м		Y	
	62-72	ch	00CH00 00						0	0 H	R 5		Р		Y	
58	0-30	1	10YR43 00						0	он					v	
50	30-65	mzcl ch	00CH00 00						0	0	я 2 0		Р		Y Y	
	50-05	Ch	000100 00						Ŭ	v	Ŭ		F		1	
59	0-27	mzcl	10YR43 00						0	ОН	R 5				Y	
	27-37	hzcl	10YR44 00						0	0 CI	1 10		м		Y	
	37-69	ch	00CH00 00						0	0	0		Р		Y	
	0.05		100010 00	'					•							
60	0-25 25-60	hzc]	10YR43 00 00CH00 00							0 CI 0	H 5 0		м			
_	25-00	ch	00000000						v	U	U		M			
61	0-30	mzc1	10YR43 00						0	ОН	R 5					
	30-65	ch	00CH00 00							0	0		м			
-																
62	0-25	mzcl	10YR43 00							0 HI					Y	
	25-36	hzcl	10YR44 00						0	0 HI			M		Y	
_	36-68	ch	00CH00 00						0	0	0		P		Y	
63	0-29	mzcl	10YR43 00	•					0	он	R 5				Y	
	29-64	ch	00CH00 00						õ	0	0		Р		Ý	
_			· - •						-		-					
64	0-28	mzcl	10YR43 00						0	0 Hi					Y	
	28-50	mzcl	10YR64 81						0	0 Ci			Μ		Y	
_	50-60	ch	00CH00 00				·		0	0	0		Р		Y	

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				2										
				 MOTTLES	 PED		s	TONES	5	STRUCT/	SUBS			
SAMPLE	DEPTH	TEXTURE	COLOUR	ABUN		GLEY >2				•		OR IMP :	SPL CALC	
65	[.] 0-27	mzcl	10YR43 00			0	a	HR	5				Y .	
•••	27-45	hzcl	10YR44 00					HR	10		м			
	45-65	zc	75YR46 00					HR	10		M			
	65-80	mzcl	10YR64 00					СН	50		M		Y	
	00-00		101104 00			Ŭ	Ŷ	ÇII						
66	0-28	mzcl	10YR43 00			0	•	HR	5				Y	
00	28-63	ch	00CH00 00				0		0		Ρ		Ŷ	
	20-03	- Ch	00000000			U	0		. U		۳		Ť	
67	0.96		10/042 00			•	~		-					
67	0-26	mzcl	10YR43 00					HR	5		-		Ŷ	
	2661	ch	00CH00 00			0	• 0		0		Ρ		Ŷ	
							•	.	_					
68	0-28	hzc1	10YR43 00					СН	5					
	28-63	ch	00CH00 00			0	0		0		М			
- 69	0-25	mzcl	10YR43 00					СН	5					
	25-60	ch	00CH00 00			0	0		0		М			
70	0-25	mzcl	10YR53 00			0	0	СН	10		•		Y	
	25-60	ch	00CH00 00			0	0		0		Ρ		Ŷ	·
71	0-35	mzcl	10YR42 43			0	0	HR	3				Y	
	35-52	hzc1	10YR54 00			0	0	HR	5		Μ		. Y	
	52-53	hr	00ZZ00 00			0	0		0		Р			
								÷						
72	0-30	mzcl	10YR43 00			0	0	HR	4				Y	
	30-65	ch	00CH00 00			0	0		0		₽.		Ŷ	
			_											
73	0-26	mzcl	10YR43 00			0	0	HR	5				Ŷ	
	26-55	hzcl	10YR44 00			0	0	HR	5	`	м		Ŷ	
	55-70	mzcl	10YR73 00			0	0	СН	50		м		Y	
	70-80	ch	00CH00 00			0	Ó		0		ρ		Y	
74	0-25	mzcl	10YR43 00			0	0	HR	15					
75	0-25	hc1	10YR43 00			0	0	HR	2					•
	25-40	hc1	10YR44 00			0	0	СН	10		м		•	
	40-72	ch	00CH00 00			0	0		0		м			
76	0-30	mcl	10YR43 00			0	٥	HR	5					
77	0-25	mzcl	10YR43 00			0	0	HR	4				Y	
	25-62	hzcl	10YR44 00			0		HR	7		м		Ŷ	
						·	•		•		••		•	
78	0-30	mzcl	10YR43 53			0	0	СН	5				Y	
	30-52	mzcl	10YR54 00			0		СН	15		м		Ŷ	
	52-62	ch	00CH00 00			0	ò		0		P		. Y	
		<u></u>				0	0		5		r		- 1	
79	0-27	mzcl	10YR43 00			0	n	HR	3				Ŷ	
, ,	27-50	mzcl	10YR54 81			0`		СН	20		M		Ŷ	
	27-50 50-60	ch	00CH00 00			0	0		20		P		. т У	
	50-00	CH	000N00 00			U	U		v		F		Ŷ	

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Di	age	7
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_							PED			¢'	TONES		STRUCT/	SUB				
	SAMPLE	DEPTH	TEXTURE	COLOUR		ABUN	CONT COL.	GLEY					•			IMP S	PL CALC	
	· 80	0-27	mzcl	10YR42 00					0	0	HR	5					Y	
		27-62	ch	000000000					0	0		0		Ρ			Y	
	[′] 81	0-20	mzcl	10YR43 00			,		0	0	HR	15					Y	i
	82	0-25	c	10YR43 00				•	O	۵	HR	2						
		25-35	c	10YR44 00	00000	0 00 C	00MN00	00 Y			HR	5		Ρ	Y			
	83	0-25	с	10YR42 00					0	0	HR	5						
		25-30	c	75YR46 00	00000	0 00 C	10YR42	00 Y	•		HR	5		Ρ	Y			
	84	0-25	haol	104643-00					0	^	uо	2					Ŷ	
	04	25-65	hzc]	10YR43 00			0000000	~~	0		HR	2					r	
		-	zc	10YR44 00			OOMNOO	00	0		HR	2		M				
_		65-73	hzcl	10YR44 00					0	0		0		M				
		73-80	mzcl	10YR73 00					0		СН	50		M			Ŷ	
		80-90	ch	00CH00 00					0	0		0		Ρ			Ŷ	
_	85	0-25	mzcl	10YR43 00					0	0	HR	5					Y	
		25-40	hzcl	10YR44 54					0		HR	10		м			Ŷ	
		40-75	ch	00CH00 00						0		Q		P			Ŷ	
	86	0-23	mzcl	10YR43 00					0	0	HR	5					γ	
J		23-35	mzcl	10YR54 00					0	0	HR	5		M			Y	
_	87	0-35	mzcl	10YR53 00					0	0	HR	3					Ŷ	
		35-42	mzcl	10YR43 00					0	0	СН	20		м			Y	
		42-74	ch	00СНОО ОО					0	0		0		Ρ			Y	
	88	0-27	mzcl	10YR42 00			-		0	0	HR	6					Y	
		27-62	ch	10CH00 00					ō	0		0		Р			Ŷ	
		C,							•	•		•		•				
	89	0-30	c	10YR53 00	OOMNO	0 00 C			0	0	HR	5						
	90	0-25	с	10YR43 00					0	0	HR	2						
_		25-60	c	10YR54 00	00000	0 00 C	10YR53	00 Y	0	0	Сн	5		Ρ	Y	١	1	
	91	0-30	с	10YR43 00					0	0	HR	5						
	92	028	hzcl	10YR43 00					n	٥	HR	3					Y	
		28-63	ch	00CH00 00						0		õ		Р			Ŷ	
		20 00		0000000000					Ū	Ŭ		v					•	
	93	025	mzcl	10YR43 00					0	0	HR	5					Y	
		25-60	ch	00CH00 00					0	0		0		Ρ			Y	
_	94	027	mzcl	10YR43 00					0	0	HR	5					Y	
		27-45	hzc1	10YR44_00					0	0	HR	8		м				
		45-55	с	75YR46 00					0	0	HR	2		ρ				
		5570	mzcl	10YR73 00					٥.	0	СН	60		м			Y	
		70-80	ch	00CH00 00					0	0		0		Ρ			Y	

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SAMPLE	DEPTH	TEXTURE	COLOUR			SUBS STR POR IMP SPL CALC
95	0-30	mcl	10YR43 00	• •	0 0 CH 5	·
	30-65	ch	00CH00 00			м
[,] 96	0-30	mcl	10YR43 00		0 0 HR 5	
	30-65	ch	00CH00 00		0 0 0	М
97	0-30	mcl	10YR53 00		0 0 CH 5	
•••	30-65	ch	00CH00 00	· .	0 0 0	м
98	0-30	mcl	10YR43 00		0 0 HR 5	
30	30-35	mcl	10YR43 00		0 0 CH 10	м
	35-67	ch	00CH00 00	-	0 0 0	м
99	0-25	mzcl	10YR31 00		0 0 HR 5	
100	0-30	mzcl	10YR32 00		0 0 HR 2	
	30-40	hcl	10YR64 00		0 0 CH 10	м
101	0-30	mzc]	10YR32 00		0 0 HR 5	
102	0-30	mzcl	10YR32 00	•	0 0 HR 5	