A1 Hampshire Structure Plan Review Land at Palestine/Grateley Reconnaissance Survey Agricultural Land Classification ALC Map and Report April 1995

AGRICULTURAL LAND CLASSIFICATION REPORT

HAMPSHIRE STRUCTURE PLAN REVIEW LAND AT PALESTINE/GRATELEY RECONNAISSANCE SURVEY

1 Summary

- 11 ADAS was commissioned by MAFF's Land Use Planning Unit to provide information on land quality for a number of areas of search in connection with MAFF's input to the Hampshire Structure Plan Review
- 12 The land between Palestine and Grateley comprises 685 hectares of land bounded by Grateley Station in the east Quarley Hill in the north Long Walk plantation in the west and Mount Carmel Road in the south An Agricultural Land Classification (ALC) survey was completed at a reconnaissance level of detail on a free survey basis as it was undertaken primarily to update the 1 63 360 scale provisional ALC map for the area of search Consequently the results are designed for strategic planning purposes only For site specific proposals further more detailed surveys may be required A total of 79 auger borings and 4 soil inspection pits were assessed in accordance with 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 a long term limitation on its use for agriculture
- 13 The work was carried out by members of the Resource Planning Team in the Guildford Statutory Group of ADAS
- 14 At the time of the survey the majority of the agricultural land was under arable cropping and set aside The remainder comprised permanent pasture and grassland ley Urban areas include the private dwellings commercial properties and includes farm buildings adjoining the urban area of Palestine as well as more isolated properties Woodland is shown as Non agricultural land About 15% of the area was not surveyed mainly at the request of the owners concerned
- 1 5 The distribution of grades and subgrades is shown on the attached ALC map and the areas are given in the table 1 overleaf The map has been drawn at a scale of 1 50 000 It is accurate at this scale but any enlargement would be misleading
- 16 Appendix 1 gives a general description of the grades and landuse categories identified in this survey The main classes are described in terms of the type of limitation that can occur the typical cropping range and expected level and consistency of yield

Table 1 Distribution of Grades and Subgrades

Grade	Area (ha)	% of Site	% of Agricultural Area
2	9	13	17
3a	107	156	20 6
3b	403	58 9	<u>77 7</u>
Non Agricultural	24	3 5	100% (519 ha)
Urban	37	54	
Not Surveyed	<u>105</u>	<u>153</u>	
Total area of site	685	100%	

17 The majority of the agricultural land in this area of search has been classified as moderate quality (Subgrade 3b) Some areas of good quality (Subgrade 3a) land are situated around the north west of the area of search and a small area of very good quality (Grade 2) land has been mapped in the south west corner The key limitation across the site is soil droughtiness with topsoil stoniness as a limiting factor to a lesser extent

The soils at this locality are derived from the Upper Chalk and as such comprise variably flinty chalky drift over chalk In this climatic regime where the bedrock is encountered immediately below the topsoil or where more than 15% flints greater than 2 cm diameter occur in the topsoil the land has been assigned to Subgrade 3b on the basis of a significant soil droughtiness and/or topsoil stoniness limitation. In a number of places the soil profiles are less stony and possess an upper subsoil above the chalk. Here the amount of profile available water for crops is slightly higher reducing the risk of soil droughtiness and consequently this land is assigned to Subgrade 3a. In a small valley feature to the south west corner the profiles are notably deeper over the chalk with fewer flints and chalk fragments This land has therefore been classified as Grade 2 on the basis of a minor soil droughtiness and topsoil stoniness limitation

All of the soil units contain occasional individual observations of either better or poorer quality land However at this mapping scale they were not mapped separately due to their limited number and sporadic extent

2 Climate

- 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 an overall climatic limitation are average annual rainfall as a measure of overall wetness and accumulated temperature as a measure of the relative warmth of a locality
- 2.3 An assessment of the prevailing climate has been made by interpolation from a 5km grid point dataset (Met Office 1989) A representative sample are given in Table 2 and these show that there is no overall climatic limitation. However other factors do interact with soil properties to influence soil wetness and droughtiness.

2.4 Due to the comparatively small differences in the climate in the survey area, the specific climatic variable chosen for the purposes of the survey was the median value of those obtained from over 30 separate readings taken over the whole survey area By constructing an isopleth map for each variable across the site the actual values for each survey point was later established and the grade assessed from this

Table 2 Climatic Interpolations covering the range of data within the Area of Search

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Grid Reference	SU234418	SU250415	SU258421
Altitude (m AOD)	95	110	135
Accumulated Temperature			
(degree days Jan June)	1440	1423	1394
Average Annual Rainfall (mm)	777	796	802
Field Capacity (days)	172	174	175
Moisture Deficit Wheat (mm)	105	103	99
Moisture Deficit Potatoes (mm)	96	93	89
Overall Climatic Grade	1	1	1

2.5 No local climatic factors such as significant frost risk or exposure are believed to adversely affect the area of search

3 Relief

3 1 The area of search lies between approximately 95 and 135 m AOD In general the land falls from north east to south west but is dissected by a series of dry valleys which give rise to a gently undulating landscape South of the railway there is a ridge of higher ground linking Boar Knoll with the main built up area of Palestine Nowhere in this area do either gradient or altitude affect agricultural land use

4 Geology and Soil

- 4 1 The published geological information (BGS 1975 & 1976 1 50 000 scale) shows the entire site to be underlain by the Upper Chalk
- 4 2 The published soil information (SSEW 1983 & 1984 1 250 000 scale) shows the majority of the site to comprise the Andover 1 soil association with some Carstens association mapped in the south east corner The Andover 1 association is described as comprising shallow well drained calcareous silty soils over chalk on slopes and crests Deep calcareous and non calcareous fine silty soils in valley bottoms Striped soil patterns locally (SSEW 1983) and the Carstens association are well drained fine silty over clayey fine silty and clayey soils often very flinty (SSEW 1983)
- 43 The reconnaissance survey revealed soils broadly similar to those described in paragraph 42 predominantly of the Andover association type On the crests of

some hills deeper more clayey soils were recorded which may be similar to the Carstens association However the change to Carstens soils as mapped by the SSEW (1983) in the south east of the site was not recorded during field survey work

5 Agricultural Land Classification

- 51 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 are shown on the attached sample point map

Grade 2

5 3 Land of very good quality is limited in extent and occurs over approximately 1% of this area of search on a small rise close to the Hampshire Gap These soils comprise well drained (Wetness Class I) medium silty clay loam topsoils passing to heavy silty clay loam and clay lower subsoils before the chalk is reached at a depth of 68 cm or more The total flint content ranges from 5 15% in the topsoil and decreases with depth In the topsoil flints > 2 cm in diameter were occasionally measured as 8% v/v resulting in a topsoil stoniness limitation Large flints such as these can slightly restrict crop establishment and cause wear to tyres and agricultural machinery thereby limiting the land to Grade 2 In addition the total stone content and restricted soil depth over the chalk act to reduce the amount of profile available water for plants thus slightly restricting crop growth and yield potential This land has therefore been assessed as Grade 2 due to a minor soil droughtiness and occasional topsoil stoniness limitation

Subgrade 3a

54 Land of good quality occurs in four isolated units towards the west of the site which in total comprises 15 6% of the total area The soil profiles comprise well drained (Wetness Class I) medium silty clay loam topsoils over similar or heavier upper subsoils The total stone content in the topsoil measures 8 18% flints which includes 2 11% >2 cm and 2 8% >6 cm in diameter as well as around 5% chalk fragments The upper subsoil overlies the chalk bedrock and contains 5 50% chalk fragments with 5 15% flints As indicated by Pit 4 the chalk generally occurs abruptly at 38 50 cm depth and is relatively hard thus restricting rooting depth to around 70cm and reducing available water capacity This in combination with the overall stone content leads to a moderate soil droughtiness limitation On occasions a topsoil stoniness limitation of equal severity occurs where flints >2 cm in diameter exceed 10% v v This increases production costs by increasing implement and tyre wear and by adversley affecting germination and harvesting Occasional borings of slightly better quality also occur in these mapping units however due to their limited number and distribution they have not been mapped separately

Subgrade 3b

55 The majority of this area of search (59 1%) has been assessed as moderate quality land The soils are well drained (Wetness Class I) and shallow over chalk In general the chalk bedrock occurs immediately below the topsoil and is considered to restrict plant rooting due to its hard and compacted nature at this location Pits 12 and 3 indicate rooting to between 45 65cm depending upon the precise characteristics of the chalk However for the purposes of survey 65cm rooting was used The topsoil is similar in texture to the rest of the survey area but contains between 3 35% total flint (2 25% >2 cm and 1 15% >6 cm) and 1 10% chalk fragments Profile available water will be significantly reduced on this land due to the shallow soil depth over chalk and locally high stone content in the small dry valley which runs from north east to south west past Quarley Down Farm The percentage of stones >2 cm and >6 cm will also adversley affect crop establishment and increase production costs through tyre wear and damage to agricultural machinery Again some areas of better quality land are included in this mapping unit but on the whole this land has been assessed as Subgrade 3b due to a significant soil droughtiness and/or soil stoniness limitation

ADAS Ref 1512/100/95 MAFF Ref 15/518 Resource Planning Team Guildford Statutory Group ADAS Reading

SOURCES OF REFERENCE

British Geological Survey (1975) Sheet No 299 Winchester 1 50 000 (drift edition)

British Geological Survey (1976) Sheet No 298 Salisbury 1 50 000 (drift edition)

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 6 Soils of South East England 1 250 000 scale and accompanying legend)

APPENDIX I

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 of this 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 land

Grade 3 Good to Moderate Quality Land

Land with moderate limitations which affect the choice of crops the 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

Subgrade 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

Subgrade 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 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 including housing, industry commerce education, transport religous buildings cemetries. 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 Also active mineral workings and refuse tips where restoration conditions to soft after uses may apply

Woodland

Includes commercial and non-commercial woodland A distinction may be made as necessary between farm and non farm woodland

A to P

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 $\frac{3}{2}$



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APPENDIX II

FIELD ASSESSMENT OF SOIL WETNESS CLASS

SOIL WETNESS CLASSIFICATION

Soil wetness is classified according to the depth and duration of waterlogging in the soil profile. Six soil wetness classes are identified and are defined in the table below

Wetness Class	Duration of Waterlogging ¹
I	The soil profile is not wet within 70 cm depth for more than 30 days in most years 2
п	The soil profile is wet within 70 cm depth for 31 90 days in most years or if there is no slowly permeable layer within 80 cm depth, it is wet within 70 cm for more than 90 days but only wet within 40 cm depth for 30 days in most years
ш	The soil profile is wet within 70 cm depth for 91 180 days in most years or if there is no slowly permeable layer present within 80 cm depth, it is wet within 70 cm for more than 180 days but only wet within 40 cm depth for between 31 90 days in most years
IV	The soil profile is wet within 70 cm depth for more than 180 days but not wet within 40 cm depth for more than 210 days in most years or if there is no slowly permeable layer present within 80 cm depth it is wet within 40 cm depth for 91 210 days in most years
v	The soil profile is wet within 40 cm depth for 211 335 days in most years
VI	The soil profile is wet within 40 cm depth for more than 335 days in most years

Definition of Soil Wetness Classes

Soils can be allocated to a wetness class on the basis of quantitative data recorded over a period of many years or by the interpretation of soil profile characteristics site and climatic factors. Adequate quantitative data will rarely be available for ALC surveys and therefore the interpretative method of field assessment is used to identify soil wetness class in the field. The method adopted here is common to ADAS and the SSLRC

¹The number of days specified is not necessarily a continuous period

² In most years is defined as more than 10 out of 20 years

APPENDIX III

SOIL PIT AND SOIL BORING DESCRIPTIONS

Contents

Soil Abbreviations Explanatory Note Soil Pit Descriptions Database Printout Boi ing 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 computer database This uses notations and abbreviations as set out below

Boring Header Information

- 1 GRID REF national 100 km 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	BRA	Brassicae
POT	Potatoes	SBT	Sugar Beet	FCD	Fodder Crops
LIN	Linseed	FRT	Soft and Top Fruit	FLW	Fallow
PGR	Permanent Pastur	eLEY	Ley Grass	RGR	Rough Grazing
SCR	Scrub	CFW	Comferous Woodland	DCW	Deciduous Wood
HTH	Heathland	BOG	Bog or Marsh	FLW	Fallow
PLO	Ploughed	SAS	Set aside	OTH	Other
HRT	Horticultural Cro	ps			

- 3 **GRDNT** Gradient as estimated or measured by a hand held optical clinometer
- 4 GLEY/SPL Depth in centimetres (cm) to gleying and/or slowly permeable layers
- 5 AP (WHEAT/POTS) Crop adjusted available water capacity
- 6 MB (WHEAT/POTS) Moisture Balance (Crop adjusted AP crop adjusted MD)
- 7 DRT Best grade according to soil droughtiness
- 8 If any of the following factors are considered significant Y will be entered in the relevant column

MRELMicrorelief limitationFLOODFlood riskEROSNSoil erosion riskEXPExposure limitationFROSTFrost proneDISTDisturbed landCHEMChemical limitation

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

OC	Overall Climate	AE	Aspect	EX	Exposure
FR	Frost Risk	GR	Gradient	MR	Microrelief
FL	Flood Risk	TX	Topsoil Texture	DP	Soil Depth
СН	Chemical	WE	Wetness	WK	Workability
DR	Drought	ER	Erosion Risk	WD	Soil Wetness/Droughtiness
ST	Topsoil Stonine	SS			-

Soil Pits and Auger Borings

1 **TEXTURE** soil texture classes are denoted by the following abbreviations

S	Sand	LS	Loamy Sand	SL	Sandy Loam
SZL	Sandy Silt Loam	CL	Clay Loam	ZCL	Silty Clay Loam
ZL	Silt Loam	SCL	Sandy Clay Loam	С	Clay
SC	Sandy Clay	ZC	Silty Clay	OL	Organic Loam
P	Peat	SP	Sandy Peat	LP	Loamy Peat
PL	Peaty Loam	PS	Peaty Sand	MZ	Marine Light Silts

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 the following 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 using Munsell notation
- 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 using Munsell notation
- 6 GLEY If the soil horizon is gleyed a Y will appear in this column If slightly gleyed an S will appear
- 7 STONE LITH Stone Lithology One of the following is used

HR	all hard rocks and stones	SLST	soft oolitic or dolimitic limestone
СН	chalk	FSST	soft fine grained sandstone
ZR	soft argillaceous or silty rocks	GH	gravel with non porous (hard) stones
MSST	soft medium grained sandstone	GS	gravel with porous (soft) stones
SI	soft weathered igneous/metamo	orphic ro	ck

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

8 STRUCT the degree of development size and shape of soil peds are described using the following notation

degree of development	WK weakly developed ST strongly developed	MD moderately developed
ped size	F fine C coarse	M medium VC very coarse
<u>ped shape</u>	S single grain GR granular SAB sub angular blocky PL platy	M massive AB angular blocky PR prismatic

9 CONSIST Soil consistence is described using the following notation

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

- 10 SUBS STR Subsoil structural condition recorded for the purpose of calculating profile droughtiness G good M moderate P poor
- 11 **POR** Soil porosity If a soil horizon has less than 0.5% biopores >0.5 mm a Y will appear in this column
- 12 IMP If the profile is impenetrable to rooting a Y' will appear in this column at the appropriate horizon
- 13 SPL Slowly permeable layer If the soil horizon is slowly permeable a Y will appear in this column
- 14 CALC If the soil horizon is calcareous a Y will appear in this column

15 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

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	APP 061mm MBP 3	32 mm
FINAL ALC GRADE 3B		

MAIN LIMITATION Drought e s

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MAIN LIMITATION D ought ess

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	SU23524137			02	1	1	073		076	10	3B					ĎR	3B	Chalk 35
	SU23824170		N	02	1	1	082		086	9	3B					DR	38	Roots 65/70
	SU23424155				1	1	087		093	2	3A					DR	3A	3A ST al o
	SU24954182			_	1	1	057		057	36	3B					DR	3B	Roots 45
3	SU23474172	PGR	NE	05	1	1	071	32	074	19	3B					DR	38	Ch 1k 20
3P	SU27074082	PGR	SE	03	1	1	061	42	061	32	3B					DR	38	Roots 50
4	SU23604182	PGR	W	01	1	1	073	30	079	14	ЗB					ST	3B	DRalo
4P	SU23824170	LEY	N	02	1	1	095	8	101	6	ЗA					DR	3A	Bounda y A/B
5	SU23374195	LEY	S	02	٦	1	089	15	095	0	ЗА					DR	3A	Chalk 50
6	SU23354212	LEY	s	01	1	1	086	1 7	092	3	ЗA					DR	3A	3AST1 g
7	SU23874210	LEY	S	02	1	1	088	15	094	1	3A					DR	3A	l rge sto
_ 8	SU23924195	LEY			1	1	077	30	082	13	ЗB					ST	38	DR 1 o
9	SU23824170	LEY	Ν	02	1	1	082	21	086	9	3B					DR	38	At P t 1
10	SU24204202	PGR			1	1	071	32	076	17	3B					ST	38	DR lo
11	SU24124185	PGR	N	04	1	1	074	29	078	17	3B					DR	38	Ch 1k 20
12	SU24454202	CER			1	1	073	30	077	16	3B					ST	3B	DR also
13	SU24454217	PGR	s	04	1	1	076	27	080	13	3B					DR	38	Ch 1k 25
— 14	SU24804207	LEY	Ν	01	1	1	077	26	082	11	3B					DR	3B	Ch 1k 38
15	SU24954182	LEY			1	1	069	33	073	19	3B					DR	3B	At P t 2
1 6	SU24704152	PLO	N	01	1	1	082	21	087	7	3B					DR	3B	Almo t 3A
17	SU24524190	PLO	N	04	į	1	079	24	083	10	ЗB					DR	38	Chalk 28
18	SU24254170	PLO			1	1	076	27	080	13	3B					DR	3B	Ch 1k 25
19	SU24374152	PLO			1	1	088	15	097	4	3A					ST	3A	DR also
20	SU23754077	SAS	NE	01	1	1	108	5	114	21	2					DR	2	Imp 78
21	SU23754087	SAS	NE	05	1	1	081	22	086	7	38					DR	38	Chalk 27
-																		
_ 22	SU23804102	SAS	SW	03	1	1	073	30	078	15	3B					DR	3B	Chalk 25
23	SU23654130	SAS			1	2	124	21	098	5	2					ST	ЗА	Q Dist bed
24	SU23874152	SAS	S	02	1	1	087	16	091	2	3A					DR	3A	Chalk 38
25	SU24104147	SAS			1	1	056	47	056	37	3B					DR		Imp 40
26	SU23974127	SAS	N	02	1	1	085	18	089		3A					DR		Ch 1k 45
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	SU24574117			02	1	1	076		080	13						DR		Ch 1k 25
1 31	SU24774135	PGR	N	03	1	1	117	14	112	19	2					DR	2	Chalk 68
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_	SU24974132			02	1	1	116		108	15						0R	2	Chalk 70
	SU25204125		м	02	1	1	076		080	13						DR		Ch 1k 25
_	SU25004105				1	1	089		095		3A 20					DR		Imp 60
36	SU24804095	UER			1	1	071	32	076	17	38					DR	3B	Chalk 25
	0104074005	050	N	01	•	•	001	10	000	-	24						24	24.07.3
	SU24074065			01		1	084		090		3A 0					DR		3A ST 1 o
38	SU24074025	UER	Ł	02	1	1	123	20	110	17	2					DR	2	ST Iso

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SAMP	LE	A	SPECT			WET	NESS	WHE	AT	PO	тs	м	I REL	EROSN	FROST	CHEM	ALC	
NO	GRID REF			GRDNT	GLEY SP	L CLASS			MB		MB	DRT	FLOOD	EXF				
39	SU24104040		Ε	05		1	1	145	42	119	26	1				DR	1	
40	SU24224047					1	1	087	16	091	3	3A				DR	ЗA	Chalk 45
41	SU24404052			03		1	1	079	24	083	10	3B				DR	3B	Ch 1k 28
42	SU24474062			01		1	1	087	16	093	0	3A				DR	3A	Ch 1k 40
43	SU24354072	CER	W	02		1	1	071	32	076	17	38				DR	38	Ch 1k 25
44	SU24254085			01		1	1	086		092	1					DR	3A	Chalk 38
45	SU24654102			03		1	1	078		082	11	3B				DR	38	Chalk 25
46	SU24654087			02		1	1	051		051	42	4				DR	38	Imp fl nts 3
47	SU24754070			01		1	1	080		084	9	3B				DR	3B	Chalk 28
48	SU25074090	CER	N	03		1	1	079	23	083	10	3B				DR	38	Ch 1k 28
40	SHORDENOOR			00		•			~~	070		20					~~	a
49	SU25354095			03		1	1	074		079	14	3B				DR	38	Chalk 20
50	SU25404112		w	03		1	1	079		083	10	3B				DR	3B	Ch 1k 25
51	SU25304155 SU25174177			0 5		1	1	071		076	17	3B				DR	3B	Chalk 25
52 53	SU25304182		NE	05		1	1	081		085	7	38				DR	3B	Imp flit 52
55	3023304182	PGK				1	1	046	57	046	47	4				DR	38	Impflit 30
54	SU24774227	CEP	c	03		1	1	073	20	078	14	3B				DR	38	Chalk 25
55	SU25174242			04		1	1	073		082	11	3B				DR	3B	Chalk 25
56	SU25274212		SW	02		1	1	074		074	19	3B				ST	3B	Imp50 QCh 1km
57	SU25454222		SW	02		1	1	085		091	2	3A				ST	3B	Imp55 Chalk
58	SU25904150			03		1	1	076		080	13	3B				DR	3B	Chalk 25
	0020004100	ULK	n	00		I	•	070	21	080	15	50				UK	30	Chark 25
59	SU26204122	CER	W	02		1	1	081	20	085	6	3B				DR	ЗA	Almost 3B
60	SU25604142		NE	03		1	1	073		073	19	3B				DR	3B	Ch 1k 30
61	SU25754117			01		1	1	074		074	18	3B				DR	3A	Imp40 Q CH
62	SU27254055					1	1	064		064	28	3B				DR		Ch 1k 25
63	SU27074082		SE	03		1	1	076		080	12	38				DR	38	At Pit 3
									-							•		
64	SU27074040	CER	SE	01		1	1	074	29	07 9	14	3B				DR	3B	Ch 1k 22 👝
65	SU26904050	CER		02		1	1	076	27	081	12	3B				DR	3B	Chalk 23
66	SU26754070	CER		01		1	1	073	30	077	16	3B				DR	3B	Ch 1k 18
67	SU26454082	SAS		01		1	1	080	23	084	9	3B				DR	3B	Not Flinty
68	SU26054015	CER	W	02		1	1	084	19	089	3	3A				DR	ЗA	Chalk 38
69	SU26304045		W	01		1	1	076	25	081	10	3B				DR	3B	Chalk 30
70	SU26274075	CER				1	1	079	20	084	6	3B				DR	ЗA	Almost 3B
71	SU25704092	CER	Е	02		1	1	053	47	053	39	3B				DR	3B	Gran la Cha
72	SU25054067	CER	W	02		1	1	079	22	083	9	3B				DR	3B	G an la Chalk
73	SU26874117	CER	Ε	01		1	1	087	16	091	2	3A				DR	3A	Ch 1k 35 👝
74	SU26874155			04		1	1	077	24	082	10	38				DR	3B	Ch 1k 30 💻
75	SU26824145			01		1	1	068	35	068	25	38				DR		Chalk 25
76	SU25854170		W	03		1	1	077	26	081	12	38				DR	38	Ch 1k 25
77	SU26321455					1	1	077		081	12					DR		Ch 1k 27
78	SU25104145	PGR				1	1	078	24	083	10	3B				DR	3B	Chalk 28
~~	0000000000	 -				_	_				. –	<u>.</u> _						
79	SU25504202	CER	W	03		ı	1	074	29	078	15	3B				DR	38	Chalk 22

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						MOTTLES	5	PED			STO	NES		STRUCT/	SUBS		
AMPL	E	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT		GLEY	2					STR POR IMP SPI	CALC	
1		0 25	mzcl	10YR33 00						6	3 H	R	15			Y	
		25 35	mzcl	10YR54 00						0	0 C	Н	35		м	Y	
-		35 70	ch	10YR81 00						0	0 Н	R	2		Р	Y	
1	Ρ	0 26	mzcl	10YR33 00						2	1 H		3			Y	
-		26 65	ch	10YR81 00						0	он	R	2		Р	Y	soft Chalk
_																	
2	2	0 20	mzc1	10YR43 00									17			Y	
		20 40	mzcl	10YR54 00						0	0 0		15		M	Y	
		40 70	ch	10YR81 00						0	0 н	R	2		P	Ŷ	
			_							•	.	_					
2	2P	0 20	mzcl	10YR43 00						0	0 H		15		P	Y	and hand Challe
		20 45	ch	10YR81 00						0	0 Н	ĸ	2		Ρ	Y	ery hard Chalk
	,	0.00	. 1	100042-00						c	э ц	ħ	0			Y	
3	3	0 20	mzcl	10YR43 00							2 H 0 H		9 2		Р	Ŷ	
-		20 60	ch	10YR81 00						0	υп	ĸ	2		r	T	
	3P	0 22	mzcl	10YR42 00						8	2 Н	R	20			Y	
	16	22 50	ch	10YR81 64							он		2		Р	Ŷ	hard Ch 1k
-		22 JU	CII	101601 04						Ŭ	•		-				
	1	0 25	mzcl	10YR33 00						25	15 H	R	35			Y	
		25 45	mz 1	10YR44 00						0	0 H		35		м	Ŷ	
		45 70	ch	10YR81 00						0	ОН		2		Р	Y	
	4P	0 26	mzcl	10YR33 00						2	1 н	IR	3			Y	
		26 46	mzcl	10YR44 00						0	0 0	н	30		м	Y	
		46 70	ch	10YR81 00						0	0 н	IR	2		Р	Y	soft Chalk
	5	0 22	m 1	10YR33 00						8	4 H		15			Y	
—		22 50	m cl	10YR44 00						0	0 Н		15		м	Ŷ	
		50 70	ch	10YR81 00						0	0 Н	IR	2		Р	Y	
- (5	0 25	mzcl	10YR33 00							7 H		12			Ŷ	
-		25 45	mzcl	10YR44 00							00		50		M	Y	
		45 70	ch	10YR81 00						U	0 н	iK	2		Р	Y	
•	-	A 44	-	10/042 00						10	c 1	10	10			Ŷ	
_	7	0 28	mzcl	10YR43 00							6 H 0 C		12 10		м	Ŷ	
		28 38	mzcl	10YR44 00							0 6		2		P	Ý	
		38 70	ch	10YR81 00						v	υr	IR	2				
	в	0 26	mz 1	10YR33 00						16	4 H	IR	25			Y	
	Þ	26 65	ch	10YR81 00							0 1		2		P	Ŷ	
		20 00								~	~ 1		~		-		
(9	0 26	mzcl	10YR33 00						2	1 }	IR	3			Ŷ	
	-	26 65	h	10YR81 00							0 1		2		Р	Y	
10	0	0 25	mzcl	10YR33 00						16	5 H	IR	25			Y	
		25 65		10YR81 00						0	0 H	łR	2		Р	Y	

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					MOTTLES		PED			STONE		STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 LIT	н тот	CONSIST	STR POR	IMP SPL CALC	
11	0 20	m cl	10YR43 00						4	2 HR	10			Y	
	20 65	ch	10YR81 00						0	0 HR	2		Ρ	Y	
12	0 27	mzcl	10YR33 00						16	6 HR	25			Ŷ	
	27 65	ch	10YR81 00						0	0 HR	2		Ρ	Y	
13	0 25	mzcl	10YR42 00						6	2 HR	15			Y	
	25 65	ch	10YR81 00						0	0 HR	2		Ρ	Y	
14	0 28	mzcl	10YR43 00						10	3 HR	20			Ŷ	
	28 38	mzcl	10YR44 00						0	0 HR	30		м	Y	
	38 65	ch	10YR81 00						0	0 HR	2		Ρ	Ŷ	
15	0 20	mzc1	10YR42 00						3	1 HR	20			Y	
	20 45	ch	10YR81 00						0	0 HR	2		Ρ	Ŷ	
16	0 35	m l	10YR42 00						3	1 HR	15			Y	
	35 65	ch	10YR81 00						0	0 HR	2		Р	Y	
17	0 28	m 1	10YR42 00						2	0 HR	10			Y	
	28 65	ch	10YR81 00						0	0 HR	2		Ρ	Ŷ	
18	0 25	mzcl	10YR42 00						6	1 HR	15			Ŷ	
	25 65	ch	10YR81 00						0	0 HR	2		Ρ	Y	
19	0 25	mzcl	10YR43 00						11	5 HR	20			Y	
	25 40	mzcl	10YR44 00						0	0 CH	40		м	Y	
	40 70	m ì	10YR54 00						0	0 CH	65		М	Y	Imp fl t
20	0 30	mz l	10YR43 00						2	0 HR	8			Y	
	30 55	c	10YR44 54						0	0 HR	5		М	Ŷ	
	55 68	h cl	10YR54 00						0	0 CH	20		M	Ŷ	
	68 78	mzcl	10YR54 00						0	O CH	50		М	Ŷ	Imp fl nts
21	0 27	m l	10YR43 00						2	0 HR	8			Y	
	27 65	ch	10YR81 00						0	0 HR	2		P	Y	
22	0 25	mzcl	10YR43 00						9	4 HR	20			Y	
	25 65	ch	10YR81 00						0	0 HR	2		Ρ	Ŷ	
23	0 30	h cl	10YR44 00						12	0 HR	25			Y	
	30 55	h cl	10YR43 00						0	0 HR	15		М	Y	
	55 65	mzcl	10YR43 00						0	0 CH	30		м	Y	
	65 105		25Y 42 00						0	0 CH	40		м	Y	
	105 120	ch	10YR81 00						0	0 HR	2		Ρ	Y	
24	028	mzc]	10YR43 00						4	2 HR	8			Y	
	28 38	m 1	10YR44 00						0	0 HR	8		М	Y	
	38 65	ch	10YR81 00						0	0 HR	2		Р	Y	

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					MOTTLES	\$	PED			STONE	s	STRUCT/	SUBS			
AMPLE	DEPTH	TEXTURE	COLOUR		ABUN	CONT	COL	GLEY	2			-	STR POR	IMP SPL	CALC	
25	0 20	mz 1	10YR43 00					1	2	6 HR	25				Y	
	20 40	mzcl	10YR63 00						0	0 CH	50		м		Y	
_																
26	0 20	mzcl	10YR43 00						6	2 HR	15				Y	
	20 45	mzcl	10YR63 00						0	0 CH	30		M		Y	
-	45 65	ch	10YR81 00						0	0 HR	2		Р		Y	
-																
27	020	mzcl	10YR43 00							2 HR	15				Y	
	20 40	mzcl	10YR63 00							0 CH	30		M		Y	
	40 65	ch	10YR81 00						0	O HR	2		Ρ		Y	
20	0.00	•	100010.00						~	A 115						
28	0 20	mzcl	10YR43 00							2 HR	15		_		Y	
	20 65	ch	10YR81 00						0	O HR	2		Р		Ŷ	
29	0 30	mz 1	10YR43 00						2	0 HR	10				Ŷ	
	30 40	mzcl	10YR63 00							0 CH	30		м		Ŷ	
	40 65	ch	10YR81 00							OHR	2		P		Ŷ	
	10 00	0.1							Ū	U III	-		r		•	
30	0 25	mzcl	10YR33 00						2	0 HR	15				Y	
-	25 65	ch	10YR81 00							O HR	2		Р		Ŷ	
31	0 23	m cl	10YR43 00						2	0 HR	15				Y	
	23 40	h cl	10YR44 00						0	OHR	5		м		Y	
_	40 58	с	75YR54 00	75YR5	8 00 C			S	0	0 HR	2		м		Y	
	58 68	m cl	10YR54 00						0	0 HR	2		м		Y	
•	68 98	ch	10YR81 00						0	0 HR	2		Ρ		Y	
32	0 30	mcl	10YR43 00							OHR	15				Y	
	30 48	h cl	10YR54 00							O HR	5		M		Y	
	48 70	ch	10YR81 00						U	0 HR	2		P		Y	
33	0.28	1	107843 00						۲	Λ UD	15				v	
33	028 2840	m c1 h c1	10YR43 00 10YR44 00							0 HR 0 HR	15 20		м		Y Y	
	40 70		10YR54 00							OHR			M M		Ŷ	
	70 100		10YR81 00							0 HR	2		P		Ý	
		•							•	•	-					
	0 25	mzcl	10YR43 00						8	2 HR	15				Y	
	25 65	ch	10YR81 00							0 HR	2		Р		Y	
35	0 25	m cl	10YR43 00						2	0 HR	10				Y	
-	25 60	m cl	10YR63 00						0	0 CH	30		м		Y	Imp fints 60
36	0 25	mcl	10YR43 00							4 HR	25				Y	
-	25 65	ch	10YR81 00						0	0 HR	2		Р		Y	
37	0 25	mzcl	10YR43 00							8 HR	18				Y	
_	25 48	m cl	10YR63 00							0 CH	30		M		Y	
	48 78	ch	10YR81 00						U	0 HR	2		М		Y	

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					MOTTLES	:	PED			STON	IFS	STRUCT/	SUBS		
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2					IMP SPL CAL	с
38	0 25	mcl	10YR43 00						8	4 HR	12			Y	
	25 38	h cl	10YR44 00						0	0 HR	5		м	Y	
	38 80	c	10YR46 00						0	0 HR	10		м	Y	
	80 110	ch	10YR81 00						0	O HR	2		Р	Y	
39	0 30	m cl	10YR43 00						1	0 HR				Y	
	30 50	h 1	10YR44 00						0	0 HR			м	Y	
	50 82	c .	10YR46 00						0	OHR			M	Y	
	82 120	mzcl	10YR64 00						0	0 CH	i 50		М	Ŷ	
40	0 25	mzcl	10YR43 00						4	4 HR	10			Y	
	25 45	mzcl	10YR63 00						0	0 CH			м	Ŷ	
	45 70	ch	10YR81 00						0	0 HR			M	Ŷ	
									_		-				
41	0 28	mzcl	10YR43 00						6	1 HR	10			Ŷ	
	28 65	h	10YR81 00						0	O HR	2		P	Ŷ	
42	0 25	mzcl	10YR43 00						10	2 HR	15			Ŷ	
	25 40	mz 1	10YR63 00						0	0 CH	30		м	Y	
	40 70	ch	10YR81 00						0	O HR	2		Р	Y	
43	0.05		100042 00						14	0 UB					
43	025 2565	mzcl ch	10YR43 00 10YR81 00						14 0	2 HR 0 HR			P	Y Y	
	25 05	cn							U		. 2		r	Ť	
44	0 28	mzcl	10YR43 00						8	0 HR	15			Ŷ	
	28 38	mzcl	10YR53 00						0	0 CH			м	Ŷ	
	38 70	h	10YR81 00						0	0 HR			Р	Y	
45	0 25	m cl	10YR43 00						4	0 HR	10			Y	
	25 65	ch	10YR81 00						0	0 HR	2		Ρ	Y	
46	0 25	m cl	10YR43 00						9	4 HR				Y	
	25 35	m cl	10YR64 00						0	0 CH	30		м	Ŷ	Imp fl
47	0 28	ກ ເ1	10YR43 00						٨	0 HR	10			v	
47	28 65	ch	10YR81 00							0 HR			Р	Y Y	
	20 05	ÇII							Ŭ	0.110	. 2		Г	1	
48	0 28	mzcl	10YR43 00						4	0 HR	8			Y	
	28 65	ch	10YR81 00							0 HR			Р	Ŷ	
49	0 20	m c]	10YR43 00						1	0 HR	10			Y	
	20 65	ch	10YR81 00						0	0 HR	2		Р	Y	
50	0 25	m cl	10YR43 00							0 HR				Y	
	25 65	ch	10YR81 00						0	0 HR	2		Р	Y	
	a a-	-							••	• • • •	. –				
51	0 25	mzcl	10YR43 00							0 HR			_	Y	
	25 65	ch	10YR81 00						Q	0 HR	2		Р	Ŷ	

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					MOTTLES		PED			STO	NES	S	STRUCT/	SUBS					
MPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2					STR POR IMP SPL	CALC				
—		_																	
52	0 34	mzcl	10YR43 00							0 H		15			Y		-		
	34 65	mcl	10YR64 81						0	0 Н	IR	5		М	Y	Imp f	1 0	its	65
5 3	0 30	mzcl	10YR43 00						11	0 н	IR	20			Y	Imp f	1	t	30
																•			
54	0 25	m cl	10YR42 00						9	5 H	IR	18			Y				
_	25 65	ch	10YR81 00						0	0 Н	IR	2		Р	Y				
	0.05		1000010 00						~	• •		~~							
55	0 25	mz 1	10YR42 00							00		20		-	Ŷ				
-	25 65	ch	10YR81 00						0	0 н	ĸ	2		Р	Y				
56	0 30	ml	10YR43 00						16	8 H	IR	25			Y				
-	30 50	m cl	10YR43 00							0 0		25		м	Y				
57	0 30	m cl	10YR43 00						16	8 H		25			Y				
-	30 47	w cj	10YR43 00						0	0 0		35		М	Y				
	47 65	h	10YR81 00						0	0 Н	IR	1		P	Y				
58	0 25	cl	10YR42 00						9	5 H	R	15			Y				
	25 65	ch	10YR81 00							0 н		2		Р	Ŷ				
•	20 00	•							·	•		-			•				
59	0 28	mcl	10YR42 00						1	0 н	IR	6			Y				
-	28 65	h	10YR81 00						0	0 Н	IR	2		Р	Y				
-																			
60	0 30	cl	10YR43 00							0 H		5		-	Ŷ				
-	30 65	h	10YR72 00						0	0 Н	IR	5		P	Y				
61	0 30	mz l	10YR43 00						2	он	IR	10			Y				
	30 37	cl	10YR44 00						0	0 H		10		м	Y				
-	37 40	mcl	10YR64 00						0	0 0	ж	35		м	Y				
62	0 25	c1	10YR43 00							1 H		18			Y				
	25 65	h	10YR81 00						0	0 Н	IR	2		Р	Y				
63	0 25	m cl	10YR43 00						8	2 н	ID	15			Y				
0.5	25 65	ch	10YR81 00							0 H		2		Ρ	Ý				
-	20 00	CIT							v	• •		-		·	•				
64	0 22	mz 1	10YR43 00						6	2 H	IR	15			Y				
	22 65	ch	10YR81 00						0	0		0		Р	Y				
-																			
65	0 23	mzc1	10YR43 00							0 H		10			Y				
	23 65	h	10YR81 00						0	0 Н	IR	2		Р	Y				
-	0 10	mzc1	10YR43 00						2	ОН	P	10			Y				
66	018 1865	mzcl h	10YR81 00							0 H		2		Р	Ŷ				
	10 00								J	5 11		-			•				
67	0 24	mcl	10YR53 00						0	0 0	н	10			Y				
	24 65	ch	10YR81 00						0			0		Р	Y				

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					MOTTLES	5	PED			STO	NES	STRUCT/	SUBS	
SAMPLE	DEPTH	TEXTURE	COLOUR	COL	ABUN	CONT	COL	GLEY	2	6 L	ІТН ТОТ	CONSIST	STR POR	IMP SPL CALC
68	0 25	m 1	10YR43 00						6	1 н	IR 10			Ŷ
00													м	Y
	25 38	m cl	10YR43 54						0	00			M P	1 Y
	38 65	ch	10YR81 00						0	0 Н	ir z		٢	T
69	0 30	m 1	10YR53 00						0	0 0	ж 25			Y
	30 65	ch	10YR81 00						0	0 H	ir 2		Р	Y
70	0 25	mz 1	10YR43 00						Λ	0 0	ж 10			Y
	25 65	ch	10YR81 00							0 H			Р	Ŷ
	25 05	Ch	POTROT OU						U	0 1			,	
71	0 28	m cl	10YR44 00						2	0 н	IR 5			Y
	28 65	ch	10YR82 00						0	0 Н	IR 2		Р	Y
72	0 28	m l	10YR44 00						2	6 H	IR 10			Y
	28 65	ch	10YR82 00						0	0Η	IR 2		Р	Y
73	0 35	mz 1	10YR43 00						4	0Η	IR 8			Y
	35 65	ch	10YR81 00						0	0Η	IR 2		Р	Y
74	0 30	mzcl	10YR52 00						0	0 0				Y
	30 65	ch	10YR81 00						0	0 F	IR 2		Р	Y
75	0 25	m cl	10YR52 00						0	0 F	IR 10			Y
75	25 50	ch	10YR81 00						0	0 -			Р	· Y
	23 30	Ch							U	U r	IK 4		r	•
76	0 25	mzc1	10YR43 00						0	0 0	CH 25			Y
	25 65	ch	10YR81 00						0	0 F	IR 2		Р	Y
77	0 27	mzcl	10YR42 00						0	0 0	сн 30			Y
	27 65	ch	10YR81 00						0	0 H	IR 2		Р	Y
78	0 28	mzcl	10YR43 00						0	0 0	CH 15			Y
	28 65	ch	10YR81 00						0	0	HR 2		P	Y
79	0 22	mzcl	10YR52 00						3	0 0				Y
	22 65	ch	10YR81 00						0	0 1	IR 2		Р	Ŷ

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