8F CS 3437

29/909

LIZARD LOCAL PLAN: ST KEVERNE, CORNWALL

AGRICULTURAL LAND CLASSIFICATION

REPORT OF SURVEY

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In September 1990 a detailed Agricultural Land Classification (ALC) survey 1. was conducted around the eastern and southern fringes of St Keverne in The survey was requested as part of MAFF's statutory Cornwall. consultation on the Lizard Local Plan; a total of 37 hectares was The fieldwork was carried out by members of the Resource surveyed. Planning Group (SW Region) at an approximate auger sampling density of 1.5 borings per hectare; 50 auger borings and 2 soil pits were described.

The location of the soil pits and the auger sample points is shown on the Auger Sample Point Map, and the distribution of the ALC grades and sub-grades is shown on the ALC map. Table 1 provides the statistics on land quality.

Table 1: Distribution of grades and Sub-grades

| Grade | Area (ha) | Z of Survey Area | Z of Agricultural Area |
|-------------|-----------|------------------|------------------------|
| 2 | 27.0 | 72.4 | 83.6 |
| 3B | 4.15 | 11.1 | 12.8 |
| 4 | 1.15 | 3.1 | 3.6 |
| Non-Agric | 3.2 | 8.6 | |
| Urban | 1.6 | 4.3 | 32.3 Na |
| Agric Bldgs | 0.2 | _0.5 | |
| | 37.3 ha | 100 % | |

2. **Climate:** Detailed assessments of the prevailing climate were obtained by interpolation from a Met Office/MAFF 5 km grid dataset for two representative locations (see Table 2). The two parameters used to assess the effect of overall climate are average annual rainfall (a measure of overall wetness) and accumulated temperature (a measure of the relative warmth of a locality). The two assessments show that there is no overall climatic limitation affecting the site.

Table 2: Climatic Interpolations

| Grid Reference | : | 1787 0207 | 1792 0214 |
|---------------------------------|---|-----------|-----------|
| Altitude (m) | : | 95 | 75 |
| Average Annual Rainfall (mm) | : | 1090 | 1088 |
| Accumulated Temperature (days) | : | 1549 | 1572 |
| Field Capacity (days) | : | 212 | 211 |
| Moisture Deficit, Wheat (mm) | : | 94 | 96 |
| Moisture Deficit, Potatoes (mm) | : | 84 | 87 |

The site was also not generally affected by any minor climatic factors such as exposure except at ASP No. 47 where the upper crest slope location and the north-easterly aspect produces a slight exposure risk (but which still permits grade 2 land).

Grade 2: The majority of the agricultural land has been placed in this grade, with little variation in the soils observed across the site - medium clay loam topsoils grade into heavy clay loams in the lower subsoils with low stone contents throughout the profile and no evidence of wetness (Wetness Class 1). Soils developed on crests show signs of fresh weathering higher up the profile (micaceous stony clays) but all the soils on the site have good root penetration to depth and contain high resources of available water.

The active limitation is soil workability. Despite the fact that the soils are in Wetness Class 1, the high local FC Day values (+ 210 days) in combination with the topsoil textures limit the soils to Grade 2 (see Table 6, Revised Guidelines).

Grades 3B and 4: All these map units have been defined with gradient as the single most limiting factor.

References: Met Office (1989) Climatological Data for Agricultural Land Classification

Agricultural Land Classification of England and Wales, MAFF (1988)

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DESCRIPTION OF THE GRADES AND SUBGRADES

The ALC grades and subgrades are described below in terms of the types of limitation which can occur, typical cropping range and the expected level and consistency of yield. In practice, the grades are defined by reference to physical characteristics and the grading guidance and cut-offs for limitation factors in Section 3 enable land to be ranked in accordance with these general descriptions. The most productive and flexible land falls into Grades 1 and 2 and Subgrade 3a and collectively comprises about one-third of the agricultural land in England and Wales. About half the land is of moderate quality in Subgrade 3b or poor quality in Grade 4. Although less significant on a national scale such land can be locally valuable to agriculture and the rural economy where poorer farmland predominates. The remainder is very poor quality land in Grade 5, which mostly occurs in the uplands.

Descriptions are also given of other land categories which may be used on ALC maps.

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 and horticultural crops can usually be grown but on some land in 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. Where 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 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.

Descriptions of other land categories used on ALC maps

Urban

Built-up or 'hard' uses with relatively little potential for a return to agriculture including: 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: golf courses, 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. A distinction may be made as necessary between farm and non-farm 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 land cover types, eg buildings in large grounds, and where map scale permits, the cover types may be shown separately. Otherwise, the most extensive cover type will usually be shown.

SOIL PROFILE DESCRIPTIONS: EXPLANATORY NOTE

(i) TEXTURE:-

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Soil texture classes are denoted by the following abbreviations (all Upper case*):

| S LS SZL ZL MZCL MCL SCL HZCL HCL SC ZC C | Sand Loamy Sand Sandy Loam Sand Silt Loam Silt Loam Medium Silty Clay Loam Medium Clay Loam Heavy Silty Clay Loam Heavy Silty Clay Loam Heavy Clay Loam Sandy Clay Silty Clay Clay |
|--|--|
| For the <u>sa</u> | and, <u>loamy sand</u> , <u>sandy loam</u> and <u>sandy silt loam</u> classes the predominant |
| size of sa | and fraction may be indicated by the use of prefixes, thus: |
| F | fine (more than $\frac{2}{3}$ of sand less than 0.2 mm) |
| C | coarse (more than $\frac{1}{3}$ of sand greater than 0.6 mm) |
| M | medium (less than $\frac{2}{3}$ fine sand and less than $\frac{1}{3}$ coarse sand) |
| The sub-d | ivisions of <u>clay loam</u> and <u>silty clay loam</u> classes according to clay |
| content ar | re indicated as follows:- |
| M | medium (less than 27% clay): |
| H | heavy (27-35% clay) |
| Other poss | sible texture classes include: |
| P | Peat |
| SP | Sandy Peat |
| LP | Loamy Peat |
| PL | Peaty Loam |
| PS | Peaty Sand |
| MZ | Marine Light Silts |
| * There an | e two exceptions to the Upper Case rule:- |
| - | The prefix "Calc" is used to identify naturally calcareous soils containing more than 1% Calcium Carbonate |
| - | For organic mineral soils, the texture of the mineral fraction is prefixed by " Org". |

(ii) STRUCTURE:-

Nature and size of structural units are denoted by the following abbreviations:

| SAB | Subangular Blocky |
|-----|-------------------|
| AB | Angular Blocky |
| Р | Prismatic |

(single grain, granular and platy are not abbreviated)

FFineMMediumCCoarseVCVery Coarse

eg Weak MSAB = Weakly developed medium subangular blocky

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(iii) OTHER
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| f | = | few | = | less than 2% of the matrix or surface described | | | | | | | |
|------|--------|--|--|--|--|--|--|--|--|--|--|
| С | - | соттот | nmom = $2-20\%$ of the matrix or surface described | | | | | | | | |
| | = | many | = | = 20-40% of the matrix or surface described | | | | | | | |
| VM | = | very many | = | +40% of the matrix or surface described | | | | | | | |
| f | = | faint | = | indistinct mottles, evident only on close examination | | | | | | | |
| d | = | disinct | = | although not striking, the mottles are readily seen | | | | | | | |
| Р | = | prominent | = | the mottles are conspicuous, and the mottling is one of the outstanding features of the horizon | | | | | | | |
| gm | = | grey mottl: | ing | - | | | | | | | |
| ОШ | 8 | ochreous m | otť] | Ling | | | | | | | |
| ppf | = | eg cdom = ϕ pale ped fa | com aces | non distinct ochreous mottles | | | | | | | |
| mn | = | manganese | | | | | | | | | |
| | | | | | | | | | | | |
| st | = | stones 6 d | cm | | | | | | | | |
| sst | = | stones 2-6 | сm | | | | | | | | |
| vssi | t= | stones 2 d | cm | | | | | | | | |
| WC. | - | Wetness (1) | | (use Roman numerals og WC TV) | | | | | | | |
| SPI. | _ | Slowly Peru | neal | le Laver | | | | | | | |
| WT | = | Water Table | | | | | | | | | |
| I | = | Impenetral | le i | if used in Depth Column | | | | | | | |
| IMP | = | Impenetral | le i | if used in soil profile notes | | | | | | | |
| (IM | 2 x 40 | 0 cm = 2 add | liti | ional borings, both impenetrable at 40 cm) | | | | | | | |
| ÀSP | = | Auger Samp | leI | Point | | | | | | | |
| | | • · · · | | | | | | | | | |

[RPG-47]SJ

| SITE NAME Pl Lizard Local Plan St Keverne, Cornwall Di 8FCS 3437 | | PROFILE NUMBER SLOPE A 1 2° W-f | | SLOPE AND ASPECT 2° W-facing | | LAND USE Av Raint ATO | | all :- 1090 :- 1549 | | PARENT MATER | IAL | | | |
|---|-----------------------|------------------------------------|------------------------|------------------------------|---|--|---|--------------------------|-------------------------|--------------------|--|---------------------------------|------------------------|---|
| | | 1 (| DATE 11/9/90 | | GRID RE | FERENCE | | | Climatic | Climatic grade:- 1 | | | | |
| lorizon i lumber | Lowest Av Depth | Matri Ped Colo | ix and Face ours | Texture | Stoniness: Size, Shape, Type, and Field Method | Mottling Abundance, Contrast Size and Colour | Structure: Development Size and Shape | Pores and Fissures | Structura) Condition | Consistence | Roots Abundance Size and Nature | Calcium Carbonate Content | Mangan Concs etc | Horizon Boundary Distinctne and Form |
| opsoil | 0-21 | 104 | R43 | MCL | Negligible | Not mottled | FSAB | | Friable | | Good common root penetration | | | |
| ubsoil 1 | 21-47 | 1046 | R44 | MZCL | Negligible | Not mottled | Weak MSAB | > 0.5 % | Good | Friable | Good common root penetration | | | |
| iubsoil 2 | 47-71 | 10YF some | R56 ochreou | HCL s weatherin | ng colours 2% vsst;visual | Not mottled | Weak CSAB | > 0.5% | Moderate | Friable | Common roots | | | |
| ubsoil 3 | 71-80+ | 1046 | r 54 | Micaceous Clay | : 10% vsst;visua | Not mottled | Weak CSAB | > 0.5 % | Moderate | Friable | Common | | | |
| it dug t | o 80 cm; a | ugering | g to 1.2 | m reveals | continuation of S | ubsoil 3 | | | | | | | | |
| epth to : ermeable | Slowly Horizon :- | Not - No S | gleyed SPL | | Available Water | • Wheat :- Not lim Potatoes :- | liting | | | Final ALC Gr | ade | :- 2 | | |
| letness C | lass :· | - I | | | Moisture Defict | t Wheat :- | | | | Main Limitin | g Factor(s) | :- Workabilit | y | |
| Wetness Grade :- 2 | | | Moisture Balanc | e Wheat :- | | | | | | _ | | | | |
| Potatoes :- RPG0023/WJC Droughtiness Grade | | | | | | | Remarks :- | | | | | | | |

| SITE NAME | | PROFILE 2 | PROFILE NUMBER 2 DATE 12/9/90 | | SLOPE AND ASPECT 3° Upslope; 5° Down, NW GRID REFERENCE | | LAND USE | LAND USE Av Rain ATO Temp Grass FC Days Climat | | Av Rainfall :- 1088 ATO :- 1572 FC Days :- 211 Climatic grade:- 2 | | PARENT M | PARENT MATERIAL Gabbro | |
|------------------------------------|-----------------------------------|-----------------------------------|--|--|---|--|---|---|-------------------------|--|--|---------------------------------|---------------------------|--|
| Lizard Lo St Kevero 8FCS 343 | St Keverne, Cornwall 8FCS 3437 | | | | | | Temp Grass | | | | | Gabbro | | |
| Horizon Number | Lowest Av Depth | Matrix and Ped Face Colours | Texture | Stonines Size, Sha Type, ar Field Met | ss: ape, nd thod | 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 |
| Topsoi 1 | 0-21 | 10YR42 | MCL | - | | fdom | Not compacted | | | | Good common root penetration | - | | Gradua] indistinct |
| Subsoil | 21-66 | 10YR43 | MCL | 2 % vsst; visual | hard, | Not mottled | Weak FSAB | > 0.5 7 | Good | Friable | Good common root penetration | | | Clear colour change |
| Subsoil (| 2 66-80+ | 10YR54 | HCL | 30% sst; visual | hard, | Not mottled | Difficult to ass high stone conte | sess structu Int | te due to | | Good common root penetration | | | |
| | | | | | | | Weak FSAB | > 0,5% | Good | V Friable | | | | |
| Depth to Permeable | Slowly B Horizon | Not gleyed - No SPL | | Available | a Water | Wheat :- 131 mm | (stopping at 80 cm |) | <u> </u> | Final ALC Gr | ade : | - 2 | <u> </u> | |
| Wetness Class :- I | | | Moisture | Potatoes :- Moisture Deficit Wheat :- 94 mm | | | | Main Limiting Factor(s) :- Workability | | | | | | |
| | | | | | | Potatoes :- | | | | | | | | |
| Wetness (| Grade : | :- 2 | | Moisture | Balance | e Wheat :- +37 mm | | | | | <u> </u> | | | |
| 00000004 | | | | D | • | Potatoes :- | | | | Remarks :- | | | | |
| Krouuz3/WJC | | | | Droughtin | ness Gra | ide :- 1 | | | | ļ | | | | |

AGRICULTURAL LAND CLASSIFICATION

LIZARD LOCAL PLAN; St Keverne, Cornwall SOIL PROFILE DESCRIPTION • 8FCS 3437

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Date of Survey 10-12.9.90

| ● NO | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOTES |
|-------------------|---------|--------|---------------|------------------------------------|------------------|
| 1 | MCL | 10YR43 | 0-30 | cdom; surface feature | |
| | MCL | 10YR44 | 30-90+ | not mottled; WCI | |
| • | | | | | |
| 2 | MCL | 10YR53 | 0-25 | cdom | |
| | MCL | 10YR43 | 25-65 | not mottled | <u></u> |
| • | MCL | 10YR54 | 65-90+ | and 10YR64; cdom; not gleyed; WCI | |
| • | | | | | |
| 3 | MZCL | 10YR53 | 0-30 | cdom | |
| | MZCL | 10YR53 | 30-48 | slightly greyer than topsoil; cdom | |
| | | | I | (x2); poss gleyed <40 cm; WCIII | |
| • | | | | | |
| <u> 4 </u> | MCL | 10YR43 | 0-35 | | |
| | MCL | 10YR44 | 35-70 | | |
| | MCL | 10YR66 | 70-90+ | some ochreous weathering colours | |
| • | | | | WCI | |
| • | | | | | |
| 5 | MZCL | 10YR43 | 0-25 | cdom | |
| | MZCL | 10YR44 | 25-60 | | |
| | MZCL | 10YR56 | 60-85+ | WCI | |
| • | | | | | |
| 6 | MCL | 10YR43 | 0-25 | | |
| | MCL | 10YR44 | 25-50 | | |
| | · | | I | (2nd Imp at 30 cm) | |
| | | | | | |
| 7 | MCL | 10YR43 | 0-20 | | |
| | MCL | 10YR43 | 20-30 | fdom | · |
| | MZCL | 10YR44 | 30-65 | fdom | |
| | HZCL | 10YR44 | 65-70 | | |
| | HZCL | 10YR54 | 70-85 | WCI | |
| | | | <u> </u> | | |
| | | | | | |
| 8 | MCL | 10YR43 | 0-30 | | |
| | MCL | 10YR44 | 30-60 | | |
| | | | <u> </u> | too stony to penetrate when dry | |
| P | | | | | |
| 9 | MCL | 10YR43 | 0-20 | cdom | |
| | MCL | 10YR44 | 20-72 | | |
| | |] | <u> </u> | 2nd Imp at 40 cm; too stony | |

AGRICULTURAL LAND CLASSIFICATION

SOIL PROFILE DESCRIPTION

Date of Survey

| NO | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOT |
|----|---------|---------|---------------|------------------------------------|--------------------|
| 10 | MCL | 10YR43 | 0-25 | cdom | |
| | MCL | 10YR43 | 25-55 | | |
| | | | 1 | too stony to penetrate when dry | |
| | | | | | |
| 11 | MCL | 10YR52 | 0-20 | cdom | flat stream edge; |
| | HCL | 10YR62 | 20-40 | cdogm | occasional boulder |
| | | | 1 | (2 others Imp at 32cm; solid) | outcrop |
| | | | | WCIII at best | |
| | | 1 | | | |
| 12 | MCL | 10YR43 | 0-25 | | 6° slope |
| | MCL | 10YR44 | 25-55 | | |
| | MCL | 10YR56 | 55-80+ | 2% vsst; WCI | |
| | | | | | |
| 13 | MZCL | 10YR53 | 0-30 | | |
| | MZCL | 10YR43 | 30-45 | | |
| | HCL | 10YR56 | 45-80+ | 10% vsst; weathering material; | |
| | | | | some ochreous weathering colours; | |
| | | | | WCI | |
| | | | | | • |
| 14 | MCL | 10YR44 | 0-10 | cdom | |
| | MCL | 10YR44 | 10-60 | | |
| | MCL | 10YR56 | 60-75 | | |
| | | | I | too stony to penetrate. WCI | |
| | NC | 101/544 | | | |
| 15 | MCL | 10YR44 | 0-25 | | |
| | MCL | 104844 | 25-80+ | slightly paler | |
| | | | | WCI | |
| 16 | MCI | 107044 | | | |
| 10 | MCL | | 0-25 | | |
| | | 107844 | | | |
| | | | 1 | (2nd attempt imp after 30 cm) WCII | |
| 17 | MCL | 10YR43 | - 0-20 | | |
| | MCL | 10YR44 | 20-50 | | |
| | MCL | 10YR54 | 50-60 | some ochreous weathering colours | |
| | | | I | WCI | |
| | | | | | |
| | | | | | |

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SOIL PROFILE DESCRIPTION

Date of Survey

| ● ^{NO} | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOTES |
|-----------------|----------|----------|---------------|---------------------------------|---------------------------------------|
| 18 | MZCL | 10YR54 | 0-25 | | |
| • | MZCL | 10YR44 | 25-70 | | |
| • | MZCL | 10YR54 | 70-80+ | few ochreous weathering colours | |
| • | | | | | |
| 19 | MZCL | 10YR54 | 0-25 | very dry soil | |
| <u> </u> | MZCL | 10YR44 | 25-50 | | |
| • | MZCL | 10YR54 | 50-75 | few ochreous weathering colours | |
| • | <u> </u> | | <u> </u> | 2% vsst; too stony to penetrate | |
| | | | | | |
| 20 | MZCL | 10YR54 | 0-30 | | |
| • | MZCL | 10YR56 | 30-60 | 5% vsst | |
| • | | | <u> </u> | too stony to penetrate when dry | , |
| | | | | | |
| 21 | MCL | 10YR43 | 0-30 | | |
| • | MCL | 10YR44 | 30-60 | | |
| • | · | | <u> </u> | too stony to penetrate when dry | <u> </u> |
| | | | | | |
| 22 | MCL | 10YR43 | 0-25 | | |
| • | MCL | 10YR44 | 25-60 | | <u></u> |
| • | MZCL | 10YR44 | 60-80+ | few ochreous weathering colours | |
| | | | | WCI- | |
| | | ļ | | | |
| 23 | MCL | 10YR54 | 0-30 | | |
| • | MCL | 10YR44 | 30-60+ | | |
| _ | | | | WCI | |
| | | | | | |
| 24 | MCL | 10YR44 | 0-25 | | |
| | MCL | 10YR44 | 25-35 | few ochreous weathering colours | |
| | MCL | 10YR44 | 35-70+ | | |
| | | | | WCI | |
| ▶ | | | <u> </u> | | |
| 25 | MCL | 10YR54 | 0-25 | few ochreous mottles | · · · · · · · · · · · · · · · · · · · |
| | MCL | 10YR44 | 25-75 | no mottles | |
| | MCL | 10YR44 | 75+ | some paler mottles | |
| | | | | WCI | |
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SOIL PROFILE DESCRIPTION

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Date of Survey

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| NO | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOTES |
|----------|----------|----------|---------------|--|---------------------------------------|
| 26 | MCL | 10YR44 | 0-35 | | |
| | MCL | 10YR44 | 35-50 | slightly paler matrix colour. Prob | |
| | | | | deeper | |
| | | • | I | WCI | |
| | | | | | |
| _ 27 | MCL | 10YR54 | 0-30 | | |
| | MCL | 10YR44 | 30-35 | | |
| | | | I | WCIII | |
| - 10 | MZCI | 101/1742 | | | |
| _20 | MZCL | 101843 | 20.60 | | · · · · · · · · · · · · · · · · · · · |
| <u> </u> | MZCL | 104R44 | | 20 most hand WCI | |
| | HZCL | 104854 | | 2% VSst, nard; WCI | |
| 29 | MZCL | 10YR44 | 0-30 | | |
| | MZCL | 10YR44 | 30-80+ | slight colour change; WCI | |
| | | | | | |
| 30 | MZCL | 10YR42 | 0-20 | cdom | 6½-7° slope |
| | MZCL | 10YR43 | 20-60 | | |
| | | | I | too stony to penetrate when dry | |
| | MEG | | | | |
| - 311 | MZCL | 10YR43 | 0-30 | | 6° slope |
| <u> </u> | MZCL | 10YR44 | | | |
| | | | 1 | too stony to penetrate when dry | |
| 32 | MZCL | 10YR54 | 0-32 | | 6-6½° slope |
| -+ | ·· | | Ι | (x2) too stony to penetrate when | |
| | | | | dry | |
| | | | | | |
| 33 | MZCL | 10YR54 | 0-25 | | |
| | MZCL | 10YR44 | 25-55 | few ochreous weath colours from 4 | 0ст |
| | HZCL | 10YR54 | 55-62 | 5% vsst, shillet | |
| | | | 1 | too stony to penetrate when dry | |
| <u> </u> | <u> </u> | <u> </u> | | | · · |
| 34 | MZCL | 10YR43 | 0-25 | ······································ | · |
| | MZCL | 10YR44 | 25-50 | | <u> </u> |
| | HZCL | 2.5Y62 | 50-80+ | WCI | |
| | <u></u> | | | | |
| | | _ | | 1 | l |

SOIL PROFILE DESCRIPTION

Date of Survey

| ON O | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOTES |
|----------|---------|---------|-----------------|---------------------------------------|---------------------------------------|
| 35 | MZCL | 10YR43 | 0-30 | | |
| | MZCL | 10YR44 | 30-58 | | |
| • | | | I | too stony to penetrate when dry | |
| • | | | | | |
| 36 | MZCL | 10YR43 | 0-30 | | |
| | MZCL | 10YR43 | <u> 30-80+</u> | slight colour change; WCI | |
| • | | | | | |
| 37 | MCL | 10YR43 | 0-10 | cdom | |
| | MCL | 10YR43 | 10-55 | `` | |
| | MCL | 10YR44 | 55-65 | | |
| • | | | I | too stony. WCI | |
| | | | | | |
| 38 | MCL | 10YR43 | 0-15 | | |
| | MCL | 10YR43 | 15-75 | 2% vsst | |
| | MCL | 10YR54 | 75+ | gritty weathering material | |
| | | | | WCI | · · · · · · · · · · · · · · · · · · · |
| . | | | | | |
| 39 | MCL | 10YR44 | 0-30 | | |
| _ | MCL | 10YR44 | 30-85 | slightly darker. 2% vsst | |
| | | | | WCI | |
| . | | | | | |
| 40 | MZCL | 10YR43 | 0-30 | | |
| | MZCL | 10YR43 | 30-80+ | WCI; slight colour change | |
| | | | | | |
| 41 | MZCL | 10YR43 | 0-30 | | |
| | MZCL | 10YR44 | 30-80+ | WCI | |
| | | | | · · · · · · · · · · · · · · · · · · · | |
| 42 | MCL | 10YR43 | 0-25 | | |
| | MCL | 10YR44 | 25-80 | WCI | |
| - | | | | | |
| 43 | MCL | 10YR43 | 0-30 | | 6° slope |
| | MCL | 10YR44 | 30-60 | | |
| - | | | <u> </u> | too stony to penetrate when dry | |
| 44 | MCL | 10YR43 | 0-20 | | |
| | MCL | 10YR54 | 20-60 | | |
| | MZCL | 10YR44_ | 60 <u>-85</u> + | WCI | |
| | | | | | |

AGRICULTURAL LAND CLASSIFICATION

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SOIL PROFILE DESCRIPTION

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Date of Survey

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| ND | TEXTURE | COLOUR | DEPTH (CM) | SOIL PROFILE NOTES | TOPOGRAPHY NOTES |
|----|---------|--------|---------------|---------------------------------------|-----------------------|
| 45 | MZCL | 10YR44 | 0-25 | | |
| | MCL | 10YR43 | 25-65 | | |
| | MCL | 10YR58 | 65-85+ | 15-20% vsst; WCI | |
| | | | | | |
| 46 | MCL | 10YR44 | 0-30 | | |
| | MCL | 10YR46 | 30-50 | | |
| | MCL | 10YR56 | 50-60 | | |
| | HCL | 10YR56 | 60-80+ | 5% vsst; WCI | |
| | | | _ | | |
| 47 | MCL | 10YR43 | 0-25 | | 6° slope |
| | · MCL | 10YR43 | 25-55 | | poss slightly exposed |
| | MCL | 10YR46 | 55-70 | | upper crest slope |
| | MCL | 10YR66 | 70-80+ | | - |
| | | | | | |
| 48 | MCL | 10YR44 | 0-30 | | 6½-7° slope |
| | MCL | 10YR44 | 30-60 | only slight colour change | not exposed |
| | | | | through profile | |
| | MCL | 10YR44 | 60-80+ | WCI | |
| | | | | | |
| 49 | MCL | 10YR43 | 0-30 | | |
| | MCL | 10YR44 | 30-70 | | |
| | MZCL | 10YR56 | 70-100+ | WCI | |
| | | | | · · · | |
| 50 | MCL | 10YR43 | 0-30+ | | 9° slope |
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