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# CHERWELL DISTRICT LOCAL PLAN REVIEW
## Land at Little Wretchwick Farm, Bicester
## Semi-Detailed Survey

Agricultural Land Classification
ALC Map and Report

December 1998

Resource Planning Team
Eastern Region
FRCA Reading

RPT Job Number: 3301/078/98
MAFF Reference: EL33/01588

# AGRICULTURAL LAND CLASSIFICATION REPORT

## CHERWELL DISTRICT LOCAL PLAN
## LAND AT LITTLE WRETCHWICK FARM, BICESTER, OXFORDSHIRE

## SEMI-DETAILED SURVEY

## INTRODUCTION

1. This report presents the findings of a semi-detailed Agricultural Land Classification (ALC) survey of approximately 147 ha of land to the south-east of Bicester. The survey was carried out during November and December 1998.

2. The survey was undertaken by the Farming and Rural Conservation Agency (FRCA)[1] on behalf of the Ministry of Agriculture, Fisheries and Food (MAFF). The survey was carried out in connection with MAFF's statutory input to the Cherwell District Local Plan. An ALC survey was previously conducted on the site (FRCA Ref: 3301/034/83). The present survey supersedes this and any other previous ALC information for this land.

3. The work was conducted by members of the Resource Planning Team in the Eastern Region of FRCA. The land has been graded in accordance with the published MAFF ALC guidelines and criteria (MAFF, 1988). A description of the ALC grades and subgrades is given in Appendix I.

4. At the time of survey land use on the site was either grassland (both permanent and ley) or autumn sown cereals. The areas mapped as 'Other land' include residential and farm buildings, ponds, woodland, a drain and a farm road. The area shown as 'Not Surveyed' comprises an area where permission for access was not forthcoming in the timescale for this survey. It is not envisioned that land quality in this area would be substantially different from the remainder of the site.

## SUMMARY

5. The findings of the survey are shown on the enclosed ALC map. The map has been drawn at a scale of 1:15,000. It is accurate at this scale but any enlargement would be misleading.

6. The area and proportions of the ALC grades and subgrades on the surveyed land are summarised in Table 1.

7. The fieldwork was conducted at an average density of approximately 1 boring per 3 hectares of agricultural land. A total of 54 borings and 5 soil pits was described.

8. The entire site is classified as Subgrade 3b (moderate quality agricultural land) with soil wetness as the principal limitation.

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[1] FRCA is an executive agency of MAFF and the Welsh Office

**Table 1: Area of grades and other land**

| Grade/Other land | Area (hectares) | % surveyed area | % site area |
|---|---|---|---|
| 3b | 140.4 | 100 | 94.7 |
| Other land | 2.8 | - | 1.9 |
| Agricultural land not surveyed | 5.0 | - | 3.4 |
| Total surveyed area | 140.4 | 100 | 94.7 |
| Total site area | 148.2 | - | 100 |

9. Soils in the area comprise heavy clay loam topsoils lying over slowly permeable clay subsoils. Soil wetness reduces the versatility of the land in terms of access by machinery (e.g. for cultivations or harvesting) and grazing by livestock if damage to the soil is to be avoided. Soil wetness will also adversely affect seed germination and root growth and can therefore reduce the level and consistency of yields.

## FACTORS INFLUENCING ALC GRADE

### Climate

10. Climate affects the grading of land through the assessment of an overall climatic limitation and also through interactions with soil characteristics.

11. The key climatic variables used for grading this site are given in Table 2 and were obtained from the published 5 km grid datasets using the standard interpolation procedures (Met. Office, 1989).

**Table 2: Climatic and altitude data**

| Factor | Units | Values | | |
|---|---|---|---|---|
| Grid reference | N/A | SP 597 208 | SP 602 214 | SP 603 219 |
| Altitude | m, AOD | 70 | 64 | 66 |
| Accumulated Temperature | day°C (Jan-June) | 1426 | 1432 | 1429 |
| Average Annual Rainfall | mm | 652 | 652 | 656 |
| Field Capacity Days | days | 140 | 139 | 140 |
| Moisture Deficit, Wheat | mm | 106 | 106 | 106 |
| Moisture Deficit, Potatoes | mm | 98 | 99 | 98 |
| Overall climatic grade | N/A | Grade 1 | Grade 1 | Grade 1 |

12. 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.

13. The main parameters used in the assessment of an overall climatic limitation are average annual rainfall (AAR), as a measure of overall wetness, and accumulated temperature (ATO, January to June), as a measure of the relative warmth of a locality.

14. The combination of rainfall and temperature at this site mean that there is no overall climatic limitation and, therefore, the site is climatically Grade 1. However, climatic factors do interact with soil properties to influence soil wetness.

**Site**

15. The site lies between 60 and 70 m AOD. The majority of the site is flat. The slopes that are present are gentle and therefore do not adversely affect land quality. Other site factors such as microrelief are also not significant.

**Geology and soils**

16. The most detailed published geological information for the site (BGS, 1863) shows this area to be underlain by Oxford Clay.

17. The most detailed published soils information covering the area (SSEW, 1983) shows the survey area to comprise soils of the Denchworth and Wickham 2 Associations. Denchworth soils are mapped to the south-west of the site and are described as 'slowly permeable seasonally waterlogged clayey soils with similar fine loamy over clayey soils' (SSEW, 1983). Wickham soils are found across the majority of the site and are described as 'slowly permeable seasonally waterlogged fine loamy over clayey, fine silty over clayey and clayey soils' (SSEW, 1983). Soils consistent with these descriptions were described throughout the site.

## AGRICULTURAL LAND CLASSIFICATION

18. The details of the classification of the site are shown on the attached ALC map and the area statistics of each grade are given in Table 1, page 1.

19. The location of the auger borings and pits is shown on the attached sample location map and the details of the soils data are presented in Appendix II.

**Subgrade 3b**

20. Land of moderate quality has been mapped over the whole site. The principal limitation is soil wetness and the soils are characterised by the pit observations 1P to 5P inclusive (see Appendix II).

21. The soils comprise heavy and medium clay loam topsoils overlying clay subsoils. Stone contents within the profiles were slight and did not exceed 2% flints by volume. The pits prove that the clay subsoil horizons are poorly structured and slowly permeable thereby resulting in impeded drainage. In most cases gleying was observed within 40 cm; this is indicative of sustained periods of waterlogging. The depth to gleying and to the slowly permeable clay subsoils has resulted in these soils being placed in Wetness Classes III and IV.

In the local climate the combination of poor soil drainage and observed topsoil textures result in this area being classified as Subgrade 3b on the basis of soil wetness.

22. Excessive soil wetness may adversely affect crop growth and development. It can also reduce the number of days when the soil is in a suitable condition for cultivation or for carrying livestock and therefore the flexibility of the land is reduced.

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## SOURCES OF REFERENCE

British Geological Survey (1863) *Sheet No. 45 S.E., Banbury. 1:63,360 scale.*
BGS: London.

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

Met. Office (1989) *Climatological Data for Agricultural Land Classification.*
Met. Office: Bracknell.

Soil Survey of England and Wales (1983) *Sheet 6, Soils of South-East England. 1:250,000 scale.*
SSEW: Harpenden.

Soil Survey of England and Wales (1983) *Soils and their Use in South-East England*
SSEW: Harpenden.

## APPENDIX I

## DESCRIPTIONS 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 (e.g. 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.

# APPENDIX II

# SOIL DATA

Contents:

# 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 pasture | **LEY:** | Ley grass | **RGR:** | Rough grazing |
| **SCR:** | Scrub | **CFW:** | Coniferous woodland | **OTH** | Other |
| **DCW:** | Deciduous woodland | **BOG:** | Bog or marsh | **SAS:** | Set-Aside |
| **HTH:** | Heathland | **HRT:** | Horticultural crops | **PLO:** | Ploughed |

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:

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

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

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

**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 | **C:** | 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 | **FSST:** | soft, fine grained sandstone |
| **ZR:** | soft, argillaceous, or silty rocks | **CH:** | chalk |
| **MSST:** | soft, medium grained sandstone | **GS:** | gravel with porous (soft) stones |
| **SI:** | soft weathered igneous/metamorphic rock | **GH:** | gravel with non-porous (hard) stones |

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 | **MD:** | moderately developed |
| | **ST:** | strongly developed | | |
| Ped size | **F:** | fine | **M:** | medium |
| | **C:** | coarse | | |
| Ped shape | **S:** | single grain | **M:** | massive |
| | **GR:** | granular | **AB:** | angular blocky |
| | **SAB:** | sub-angular blocky | **PR:** | prismatic |
| | **PL:** | platy | | |

9. **CONSIST:** Soil consistence is described using the following notation:

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

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 |

| SAMPLE NO. | GRID REF | USE | ASPECT | | GRDNT | GLEY | SPL | --WETNESS-- CLASS | GRADE | -WHEAT- AP | MB | -POTS- AP | MB | M.REL DRT | FLOOD | EROSN EXP | FROST DIST | CHEM LIMIT | ALC | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | SP60402200 | LEY | | | | 25 | 25 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 7 | SP60082187 | PGR | | | | 18 | 18 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 14 | SP60202180 | PGR | | | | 24 | 24 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 16 | SP60402180 | PGR | | | | 28 | 28 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 18 | SP60602180 | CER | | | | 20 | 20 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 20 | SP60802180 | CER | | | | 26 | 26 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 32 | SP60002160 | PGR | | | | 30 | 30 | 4 | 3B | 94 | -12 | 106 | 8 | 3A | | | | WE | 3B | |
| 34 | SP60202160 | PGR | | | | 28 | 28 | 4 | 3B | 100 | -6 | 105 | 7 | 3A | | | | WE | 3B | 4P LOCATION |
| 36 | SP60402160 | PGR | | | | 28 | 28 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 38 | SP60602160 | CER | | | | 27 | 27 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 40 | SP60802160 | CER | | | | 27 | 27 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 42 | SP61002160 | CER | | | | 26 | 26 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 54 | SP59802140 | PGR | | | | 23 | 30 | 4 | 3B | 100 | -6 | 105 | 7 | 3A | | | | WE | 3B | |
| 56 | SP60002140 | PGR | | | | 35 | 35 | 4 | 3B | 100 | -6 | 105 | 7 | 3A | | | | WE | 3B | |
| 58 | SP60202140 | PGR | | | | 10 | 20 | 4 | 3B | 95 | -11 | 100 | 2 | 3A | | | | WE | 3B | |
| 60 | SP60402140 | CER | | | | 25 | 25 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 62 | SP60602140 | CER | | | | 26 | 26 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 64 | SP60802140 | CER | | | | 32 | 32 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 70 | SP60202130 | CER | | | | 0 | 30 | 4 | 3B | 93 | -13 | 105 | 7 | 3A | | | | WE | 3B | |
| 72 | SP60402130 | PGR | | | | 28 | 28 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | RIDGE & FURROW |
| 76 | SP59202120 | PGR | | | | 25 | 25 | 4 | 3B | 99 | -7 | 104 | 6 | 3A | | | | WE | 3B | |
| 78 | SP59402120 | PGR | | | | 30 | 30 | 4 | 3B | 101 | -5 | 106 | 8 | 3A | | | | WE | 3B | |
| 80 | SP59602120 | PGR | | | | 22 | 30 | 4 | 3B | 99 | -7 | 104 | 6 | 3A | | | | WE | 3B | 3P LOCATION |
| 82 | SP59802120 | PGR | | | | 25 | 25 | 4 | 3B | 99 | -7 | 104 | 6 | 3A | | | | WE | 3B | |
| 84 | SP60002120 | PGR | | | | 0 | 28 | 4 | 3B | 100 | -6 | 105 | 7 | 3A | | | | WE | 3B | |
| 85 | SP60102120 | PGR | | | | 30 | 30 | 3 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 86 | SP60202120 | LEY | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 89 | SP60502120 | PGR | | | | 20 | 20 | 4 | 3B | 88 | -18 | 100 | 2 | 3A | | | | WE | 3B | 2P LOCATION |
| 91 | SP60702120 | PGR | | | | 25 | 25 | 4 | 3B | 92 | -14 | 104 | 6 | 3A | | | | WE | 3B | |
| 94 | SP59372104 | PGR | NE | 1 | | 45 | 45 | 3 | 3B | 113 | 7 | 111 | 13 | 2 | | | | WE | 3B | |
| 99 | SP59902110 | LEY | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 100 | SP60002110 | PGR | | | | 25 | 30 | 4 | 3B | 100 | -6 | 105 | 7 | 3A | | | | WE | 3B | 1P LOCATION |
| 101 | SP60102110 | LEY | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 103 | SP60302110 | PGR | | | | 35 | 35 | 4 | 3B | 97 | -9 | 109 | 11 | 3A | | | | WE | 3B | WET@50 |
| 105 | SP60502110 | PGR | | | | 20 | 20 | 4 | 3B | 77 | -29 | 80 | -18 | 3B | | | | WE | 3B | |
| 107 | SP60702110 | PGR | | | | 20 | 20 | 4 | 3B | 82 | -24 | 88 | -10 | 3B | | | | WE | 3B | H2 PLASTIC |
| 109 | SP59572095 | ARA | E | 2 | | 28 | 28 | 4 | 3B | 116 | 10 | 108 | 10 | 2 | | | | WE | 3B | IMP HR 100 |
| 111 | SP59762104 | ARA | | | | 25 | 25 | 4 | 3B | 92 | -14 | 104 | 6 | 3A | | | | WE | 3B | |
| 112 | SP59902100 | PLO | | | | 25 | 25 | 4 | 3B | 99 | -7 | 104 | 6 | 3A | | | | WE | 3B | |
| 115 | SP60202100 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 117 | SP60402100 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 119 | SP60602100 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |

| SAMPLE NO. | GRID REF | USE | ASPECT | | --WETNESS-- GRDNT | GLEY | SPL | CLASS | GRADE | -WHEAT- AP | MB | -POTS- AP | MB | DRT | M.REL FLOOD | EROSN EXP | FROST DIST | CHEM LIMIT | ALC | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125 | SP60102090 | PGR | | | | 20 | 20 | 4 | 3B | 77 | -29 | 80 | -18 | 3B | | | | WE | 3B | |
| 129 | SP60502090 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 131 | SP59802080 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 132 | SP59902080 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 134 | SP60062079 | PLO | | | | 24 | 24 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 135 | SP60202080 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 137 | SP60402080 | PGR | | | | 20 | 20 | 4 | 3B | 79 | -27 | 82 | -16 | 3B | | | | WE | 3B | |
| 138 | SP59802070 | PGR | | | | 20 | 20 | 4 | 3B | | 0 | | 0 | | Y | | | WE | 3B | RIDGE & FURROW |
| 141 | SP60102070 | PLO | W | 1 | | 22 | 22 | 4 | 3B | 83 | -23 | 89 | -9 | 3B | | | | WE | 3B | |
| 143 | SP60302070 | CER | | | | 30 | 30 | 4 | 3B | 93 | -13 | 105 | 7 | 3A | | | | WE | 3B | |
| 144 | SP59902065 | PLO | | | | 24 | 24 | 4 | 3B | | 0 | | 0 | | | | | WE | 3B | |
| 147 | SP60202020 | CER | | | | 30 | 30 | 4 | 3B | 101 | -5 | 106 | 8 | 3A | | | | WE | 3B | 5P LOCATION |
| 1P | SP60002110 | LEY | | | | 29 | 29 | 4 | 3B | 85 | -21 | 90 | -8 | 3B | | | | WE | 3B | PIT58 @ ASP100 |
| 2P | SP60502120 | PGR | | | | 22 | 22 | 4 | 3B | 84 | -22 | 91 | -7 | 3B | | | | WE | 3B | PIT62 @ ASP 89 |
| 3P | SP59602120 | PGR | | | | 13 | 23 | 4 | 3B | 82 | -24 | 88 | -10 | 3B | | | | WE | 3B | PIT60 @ ASP 80 |
| 4P | SP60202160 | PGR | | | | 26 | 26 | 4 | 3B | 98 | -8 | 104 | 6 | 3A | | | | WE | 3B | PIT78 @ ASP 34 |
| 5P | SP60202020 | CER | | | | 25 | 25 | 4 | 3B | 95 | -11 | 104 | 6 | 3A | | | | WE | 3B | PIT75 @ ASP147 |

| SAMPLE | DEPTH | TEXTURE | COLOUR | MOTTLES COL | MOTTLES ABUN | MOTTLES CONT | PED COL. | GLEY | STONES >2 | STONES >6 | STONES LITH | STONES TOT | STRUCT/ CONSIST | SUBS STR | SUBS POR | SUBS IMP | SUBS SPL | SUBS CALC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 0-25 | HCL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 25-45 | C | 25Y 51 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | | | Y | | FIRM |
| | 45-60 | C | 05Y 51 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | | | Y | | PLASTIC |
| 7 | 0-18 | OZL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 18-28 | C | 25Y 52 | 10YR46 | M | D | | Y | 0 | 0 | | 0 | | | | | Y | | |
| | 28-60 | C | 25Y 63 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | | | Y | | |
| 14 | 0-24 | OZL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 24-44 | HCL | 25Y 52 | 10YR56 | M | D | | Y | 0 | 0 | | 0 | | M | | | Y | | |
| | 44-60 | C | 25Y 51 | 10YR56 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 16 | 0-28 | HCL | 25Y 53 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 28-46 | C | 25Y 64 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| | 46-70 | C | 05Y 52 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 18 | 0-20 | HZCL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-50 | C | 25Y 63 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 20 | 0-26 | HCL | 10YR42 | 10YR46 | M | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 26-50 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 32 | 0-30 | HCL | 10YR42 | 10YR56 | F | D | | | 0 | 0 | | 0 | | | | | | | |
| | 30-70 | C | 25Y 53 52 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 34 | 0-28 | HCL | 10YR42 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | | | | | | 4P LOCATION |
| | 28-45 | C | 10YR42 51 | 10YR56 | C | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 45-80 | C | 25Y 52 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 36 | 0-28 | HCL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 28-42 | C | 25Y 51 53 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | FIRM |
| | 42-60 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 38 | 0-27 | HZCL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 27-50 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 40 | 0-27 | HCL | 10YR42 | 10YR46 | C | F | | Y | 0 | 0 | | 0 | | | | | | | |
| | 27-50 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 42 | 0-26 | HCL | 10YR42 | 10YR46 | C | F | | Y | 0 | 0 | | 0 | | | | | Y | | |
| | 26-50 | C | 25Y 51 53 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 54 | 0-23 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 23-30 | HCL | 25Y 63 | 10YR66 | C | D | FEW MN | Y | 0 | 0 | | 0 | | M | | | | | |
| | 30-60 | C | 25Y 53 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 60-80 | C | 25Y 63 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 56 | 0-10 | MZCL | 10YR32 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 10-25 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | M | | | | | |
| | 25-35 | C | 10YR42 | 10YR66 | F | D | | | 0 | 0 | | 0 | | M | | | | | |
| | 35-80 | C | 25Y 53 | 10YR58 | C | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |

| SAMPLE | DEPTH | TEXTURE | COLOUR | MOTTLES COL | MOTTLES ABUN | MOTTLES CONT | PED COL. | GLEY | STONES >2 | STONES >6 | STONES LITH | STONES TOT | STRUCT/ CONSIST | SUBS STR | SUBS POR | SUBS IMP | SUBS SPL | SUBS CALC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | 0-10 | MZCL | 10YR32 | 75YR46 | F | D | | | 0 | 0 | | 0 | | | | | | | |
| | 10-20 | HCL | 10YR42 | 75YR46 | C | D | | Y | 0 | 0 | | 0 | | M | | | | | |
| | 20-40 | C | 25Y 61 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 40-80 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | SL. SANDY |
| 60 | 0-25 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 25-38 | C | 25Y 51 53 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | FIRM |
| | 38-50 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 62 | 0-26 | HZCL | 10YR42 | 10YR46 | M | D | | Y | 0 | 0 | | 0 | | | | | Y | | |
| | 26-50 | C | 25Y 51 53 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 64 | 0-32 | HCL | 10YR42 | 10YR46 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 32-50 | C | 25Y 51 53 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | PLASTIC |
| 70 | 0-30 | MCL | 10YR42 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 30-70 | C | 05Y 51 | 10YR58 | M | D | COM MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 72 | 0-28 | HCL | 10YR42 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 28-55 | HCL | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | M | | | Y | | |
| | 55-70 | C | 25Y 62 | 10YR58 | M | D | MANY MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 76 | 0-25 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 25-45 | C | 10YR52 | 10YR58 | C | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 45-80 | C | 25Y 53 51 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 78 | 0-30 | HCL | 10YR32 | 75YR46 | F | D | | | 0 | 0 | | 0 | | | | | | | |
| | 30-45 | C | 25Y 61 | 10YR68 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 45-80 | C | 25Y 41 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 80 | 0-22 | HCL | 10YR32 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 22-30 | HCL | 10YR42 | 75YR46 | C | D | | Y | 0 | 0 | | 0 | | M | | | | | |
| | 30-60 | C | 25Y 64 | 10YR68 | M | D | MANY MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 60-80 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 82 | 0-25 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 25-60 | C | 25Y 63 | 10YR68 | C | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 60-80 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 84 | 0-28 | HCL | 10YR42 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 28-50 | C | 25Y 53 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | | P | | | Y | | |
| | 50-80 | C | 25Y 61 63 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 85 | 0-30 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 30-55 | HCL | 10YR41 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | M | | | Y | | |
| | 55-80 | C | 25Y 52 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | P | | | Y | | |
| 86 | 0-20 | HCL | 10YR42 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | P | | | Y | | |

| SAMPLE | DEPTH | TEXTURE | COLOUR | MOTTLES COL | MOTTLES ABUN | MOTTLES CONT | PED COL. | GLEY | STONES >2 | STONES >6 | STONES LITH | STONES TOT | STRUCT/ CONSIST | SUBS STR | SUBS POR | SUBS IMP | SUBS SPL | SUBS CALC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 0-20 | MCL | 10YR52 | 10YR58 | M | D | | Y | 0 | 0 | HR | 2 | | | | | | | |
| | 20-70 | C | 05Y 52 62 | 10YR58 | M | D | COM MN | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 91 | 0-25 | HCL | 10YR51 52 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 25-70 | C | 05Y 61 62 | 10YR58 | M | D | COM MN | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 94 | 0-30 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 30-45 | HCL | 10YR42 | 10YR68 | F | D | | | 0 | 0 | | 0 | | | M | | | | |
| | 45-60 | C | 25Y 61 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | | | P | | Y | | |
| | 60-90 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 99 | 0-20 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 20-45 | C | 25Y 52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| | 45-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 100 | 0-25 | HCL | 10YR42 | 10YR66 | F | F | | N | 0 | 0 | | 0 | | | | | | | |
| | 25-30 | HCL | 10YR42 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | | M | | | | |
| | 30-80 | C | 25Y 53 | 10YR58 | M | D | MANY MN | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 101 | 0-20 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 103 | 0-35 | HCL | 10YR32 42 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 35-70 | C | 25Y 52 42 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 105 | 0-20 | C | 10YR52 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 107 | 0-20 | HCL | 10YR51 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-60 | C | 25Y 52 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 109 | 0-28 | MCL | 10YR43 | 10YR56 | C | D | | Y | 0 | 0 | HR | 2 | | | | | | | |
| | 28-55 | HCL | 25Y 53 51 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | HR | 5 | | | M | | Y | | SPL - SEE 3P |
| | 55-100 | C | 25Y 64 62 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | HR | 10 | | | P | | Y | | |
| 111 | 0-25 | HCL | 10YR53 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 25-35 | C | 25Y 51 53 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| | 35-70 | C | 05Y 51 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 112 | 0-25 | HCL | 10YR42 | 10YR66 | F | F | | | 0 | 0 | | 0 | | | | | | | |
| | 25-65 | C | 25Y 53 | 10YR58 | C | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| | 65-80 | C | 25Y 61 | 10YR68 | M | D | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 115 | 0-20 | HCL | 10YR53 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 52 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | P | | Y | | |
| 117 | 0-20 | HCL | 10YR53 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | Y | | |

| SAMPLE | DEPTH | TEXTURE | COLOUR | MOTTLES COL | MOTTLES ABUN | MOTTLES CONT | PED COL. | GLEY | STONES >2 | STONES >6 | STONES LITH | STONES TOT | STRUCT/ CONSIST | SUBS STR | SUBS POR | SUBS IMP | SUBS SPL | SUBS CALC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 119 | 0-20 | HCL | 10YR42 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 10YR52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 125 | 0-20 | C | 10YR52 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 52 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 129 | 0-20 | HCL | 10YR42 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 131 | 0-20 | HCL | 10YR42 | 10YR56 | C | | | | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | FEW MN | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 132 | 0-20 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 134 | 0-24 | HZCL | 25Y 53 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 24-50 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | | | | Y | |
| 135 | 0-20 | HCL | 10YR52 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | Y | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 137 | 0-20 | HCL | 10YR52 | 10YR56 | C | | | Y | 0 | 0 | | 0 | | | | | | Y | |
| | 20-55 | C | 25Y 63 | 10YR56 | M | | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 138 | 0-20 | HCL | 10YR42 | 75YR46 | F | D | | | 0 | 0 | | 0 | | | | | | | |
| | 20-55 | HCL | 25Y 61 63 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | | | M | | | Y | |
| | 55-80 | C | 25Y 63 | 10YR58 | C | D | FEW MN | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 141 | 0-22 | HCL | 25Y 53 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 22-60 | C | 25Y 52 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| 143 | 0-30 | HCL | 10YR42 | | | | | | 0 | 0 | HR | 2 | | | | | | | |
| | 30-70 | C | 25Y 62 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | | Y | PLASTIC |
| 144 | 0-24 | HZCL | 25Y 53 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 24-50 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | | | | Y | |
| 147 | 0-30 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | |
| | 30-60 | C | 25Y 53 52 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | | | P | | | Y | |
| | 60-80 | C | 25Y 61 | 10YR68 | M | D | | Y | 0 | 0 | | 0 | | | P | | | Y | SL. SANDY |
| 1P | 0-29 | HCL | 10YR42 | 10YR56 | F | | | | 0 | 0 | | 0 | | | | | | | PIT NEAR ASP 100 |
| | 29-58 | C | 25Y 61 | 10YR56 | M | | 25Y 51 | Y | 0 | 0 | | 0 | SDCAB | FM | P | Y | | Y | |
| 2P | 0-22 | HCL | 10YR51 | 10YR58 | C | | | Y | 0 | 0 | HR | 2 | | | | | | | PIT @ ASP 89 |
| | 22-44 | C | 05Y 61 | 10YR58 | M | | | Y | 0 | 0 | | 0 | MDCPR | FM | P | Y | | Y | |
| | 44-62 | C | 05Y 61 | 10YR58 | M | | | Y | 0 | 0 | | 0 | MDCPR | FM | P | Y | | Y | |

| SAMPLE | DEPTH | TEXTURE | COLOUR | MOTTLES COL | MOTTLES ABUN | MOTTLES CONT | PED COL. | GLEY | STONES >2 | STONES >6 | STONES LITH | STONES TOT | STRUCT/ CONSIST | SUBS STR | SUBS POR | SUBS IMP | SUBS SPL | SUBS CALC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3P | 0-13 | MCL | 10YR41 | | | | | | 0 | 0 | | 0 | | | | | | | PIT @ ASP 80 |
| | 13-23 | HCL | 10YR52 | 10YR56 | C | D | 25Y 62 | Y | 0 | 0 | | 0 | MDCAB | FR | M | Y | | | |
| | 23-39 | C | 25Y 62 | 10YR56 | C | D | | Y | 0 | 0 | | 0 | WDCAB | FR | P | Y | | Y | |
| | 39-60 | C | 25Y 61 | 10YR58 | C | D | 25Y 62 | Y | 0 | 0 | | 0 | MDCAB | FM | P | Y | | Y | PLASTIC |
| 4P | 0-26 | HCL | 10YR41 | 10YR46 | F | D | | | 0 | 0 | | 0 | | | | | | | PIT @ ASP 34 |
| | 26-44 | C | 25Y 52 | 10YR58 | C | D | FEW MN | Y | 0 | 0 | | 0 | WKCAB | FM | P | Y | | Y | |
| | 44-58 | C | 25Y 62 | 10YR58 | M | D | FEW MN | Y | 0 | 0 | | 0 | WKCPR | FM | P | Y | | Y | SL. SANDY |
| | 58-78 | C | 25Y 61 | 10YR58 | M | D | | Y | 0 | 0 | | 0 | WKCPR | VM | P | Y | | Y | |
| 5P | 0-25 | HCL | 10YR42 | | | | | | 0 | 0 | | 0 | | | | | | | PIT @ ASP 147 |
| | 25-45 | C | 25Y 64 | 10YR68 | C | D | 25Y 53 | Y | 0 | 0 | | 0 | MDCPR | FR | P | Y | | Y | |
| | 45-75 | C | 25Y 61 | 10YR58 | M | D | 25Y 52 | Y | 0 | 0 | | 0 | MDCPL | FM | P | Y | | Y | |