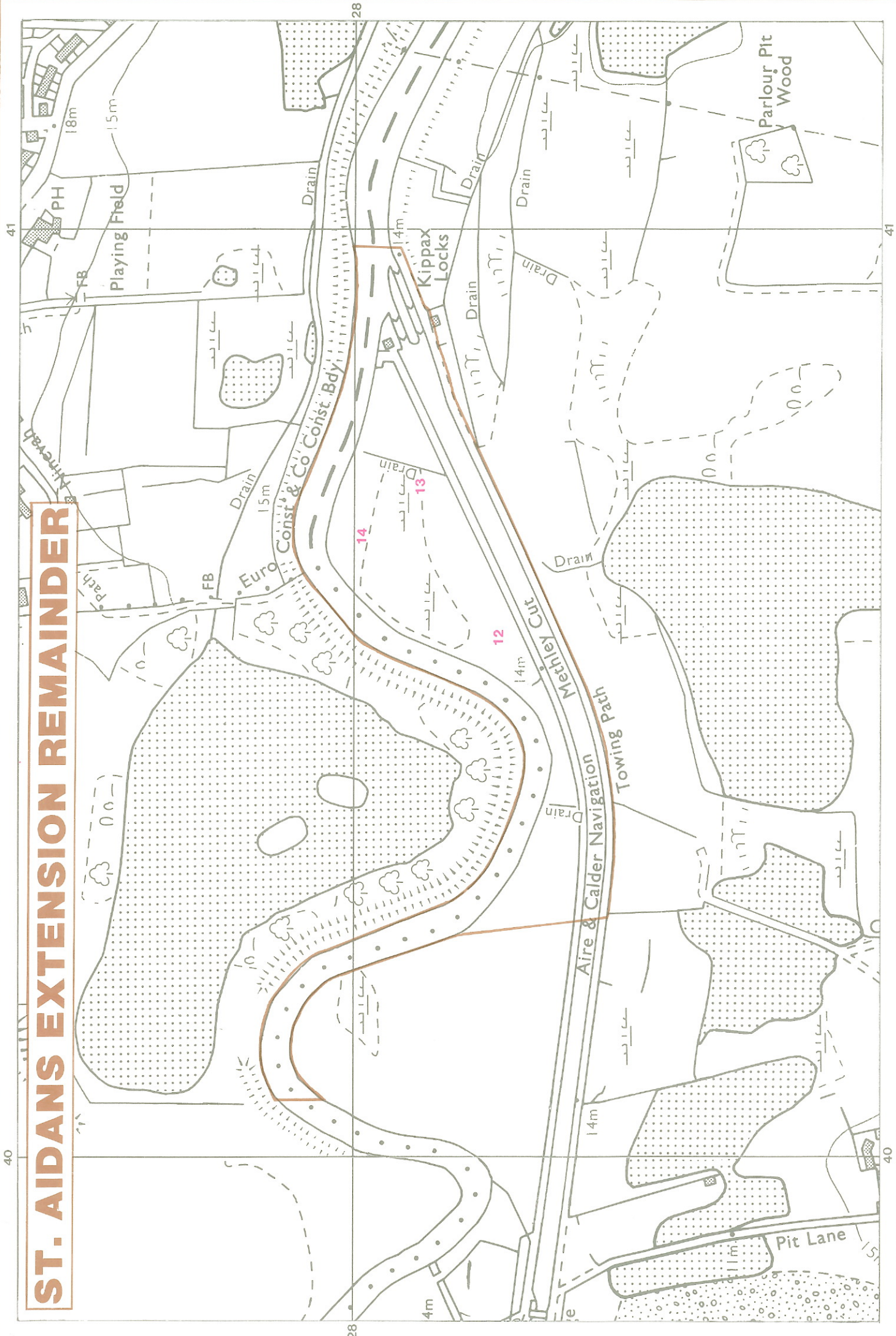


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Proposed
Opencast Coal Site



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Soil Samples

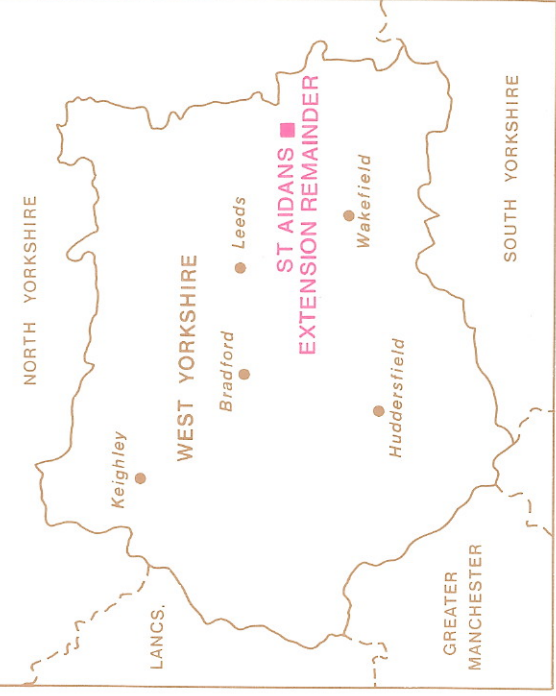
Soil Samples 12 - 14

Appendix 9

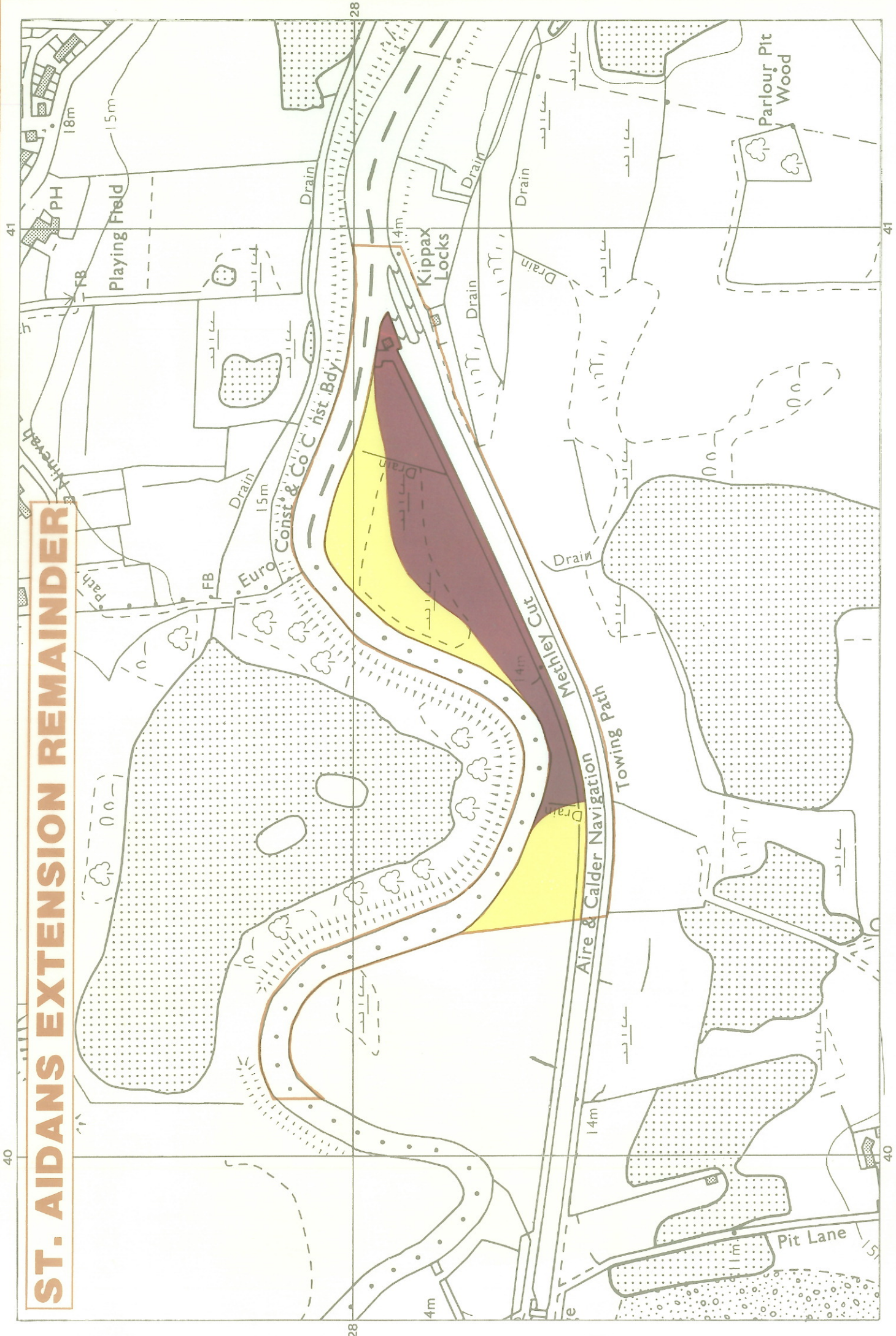
SCALE - 1:5,000



Location Map



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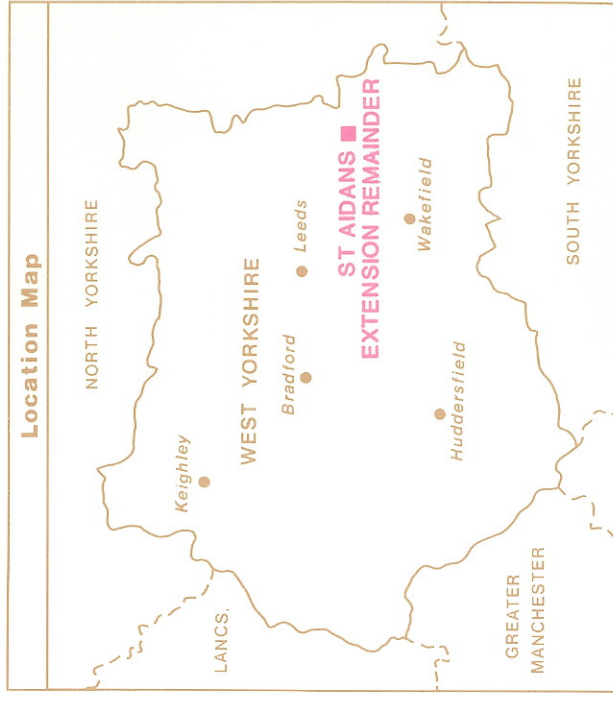
Soil Mapping Units

- Mapping Unit 1 
- Mapping Unit 2 
- Mapping Unit 3 
- Mapping Unit 4 
- Mapping Unit 5 

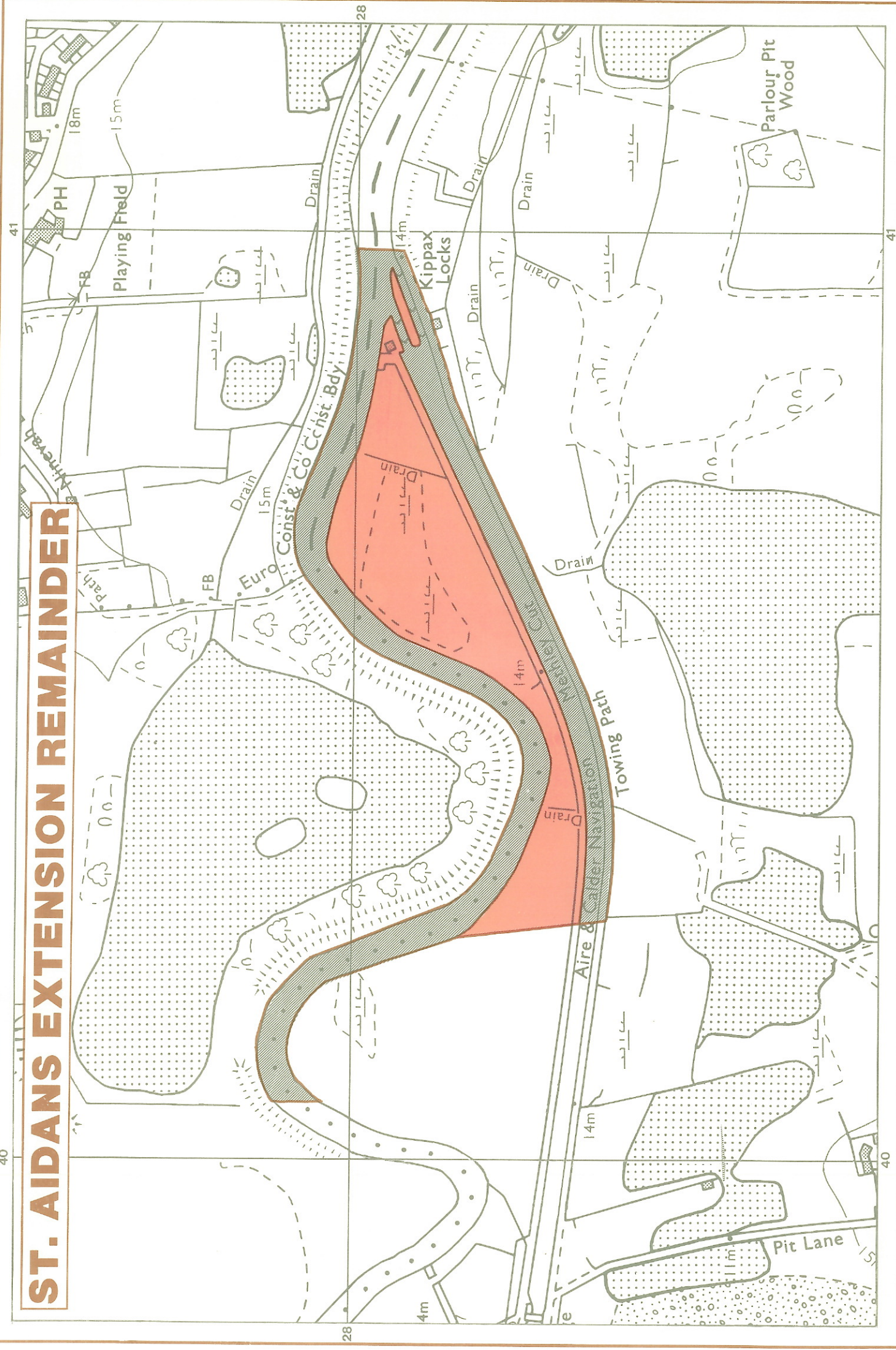
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Location Map

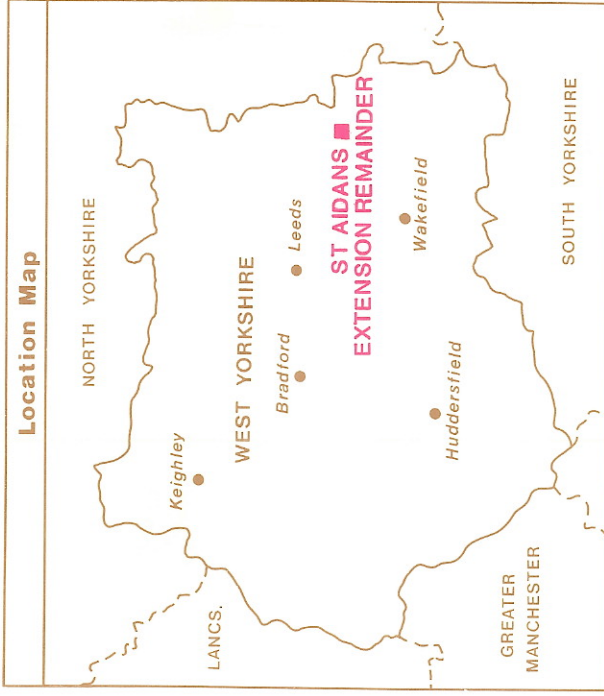


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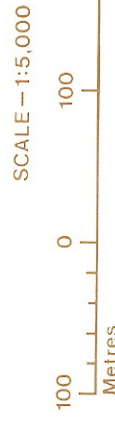
Proposed Opencast Coal Site



Agricultural Land Classification

| Agricultural Land | | Area within the site (ha.) |
|-------------------|--------------|----------------------------|
| Grade 1 | Excellent | Nil |
| Grade 2 | Very Good | Nil |
| Grade 3 | Good | Nil |
| | Sub-Grade 3a | Nil |
| Grade 4 | Moderate | Nil |
| | Sub-Grade 3b | Nil |
| Grade 5 | Poor | Nil |
| | Very Poor | Nil |

| Land in Other Categories | | Area within the site (ha.) |
|--|--|----------------------------|
| Urban <i>including housing industry, commerce, derelict land, sports facilities, transport.</i> | | Nil |
| Non-agricultural <i>including golf courses, parks, sports fields, allotments, airfields.</i> | | 5.7 |
| Woodland <i>Farm woodland</i> | | Nil |
| Commercial woodland | | Nil |
| Agricultural buildings <i>including glasshouses</i> | | Nil |
| Open water | | 5.9 |
| Land not surveyed | | Nil |



Method of Classifying Agricultural Land

The physical limitations to agriculture are assessed:

CLIMATE TOPOGRAPHY SOIL

The most limiting factor is identified and its degree of limitation assessed:

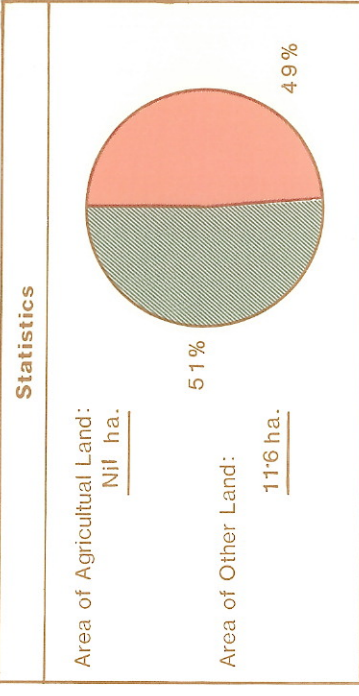
NO or MINOR VERY SEVERE

The degree of limitation determines:

FINAL AGRICULTURAL GRADE

1 2 3

Further details contained in revised Agricultural Land Classification MAFF 1988



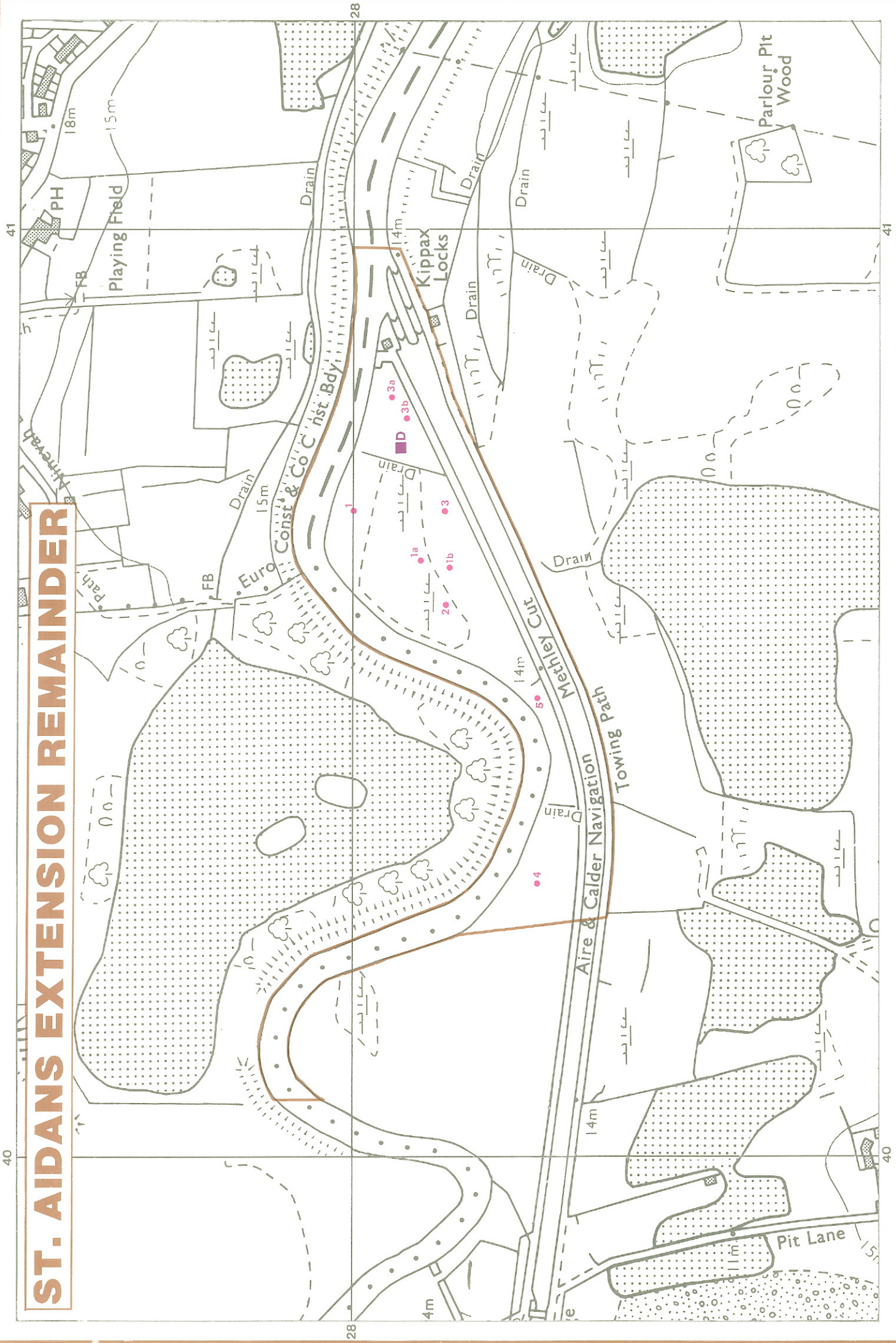
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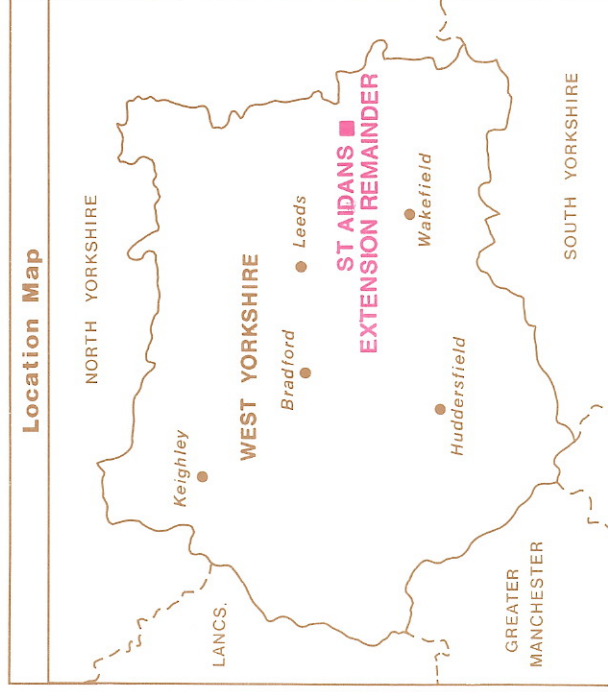
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Proposed
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Agricultural Land Classification

Location of Soil Auger Borings and Soil Pits

- Soil Auger Borings ●
- Soil Pits ■

SCALE - 1:5,000



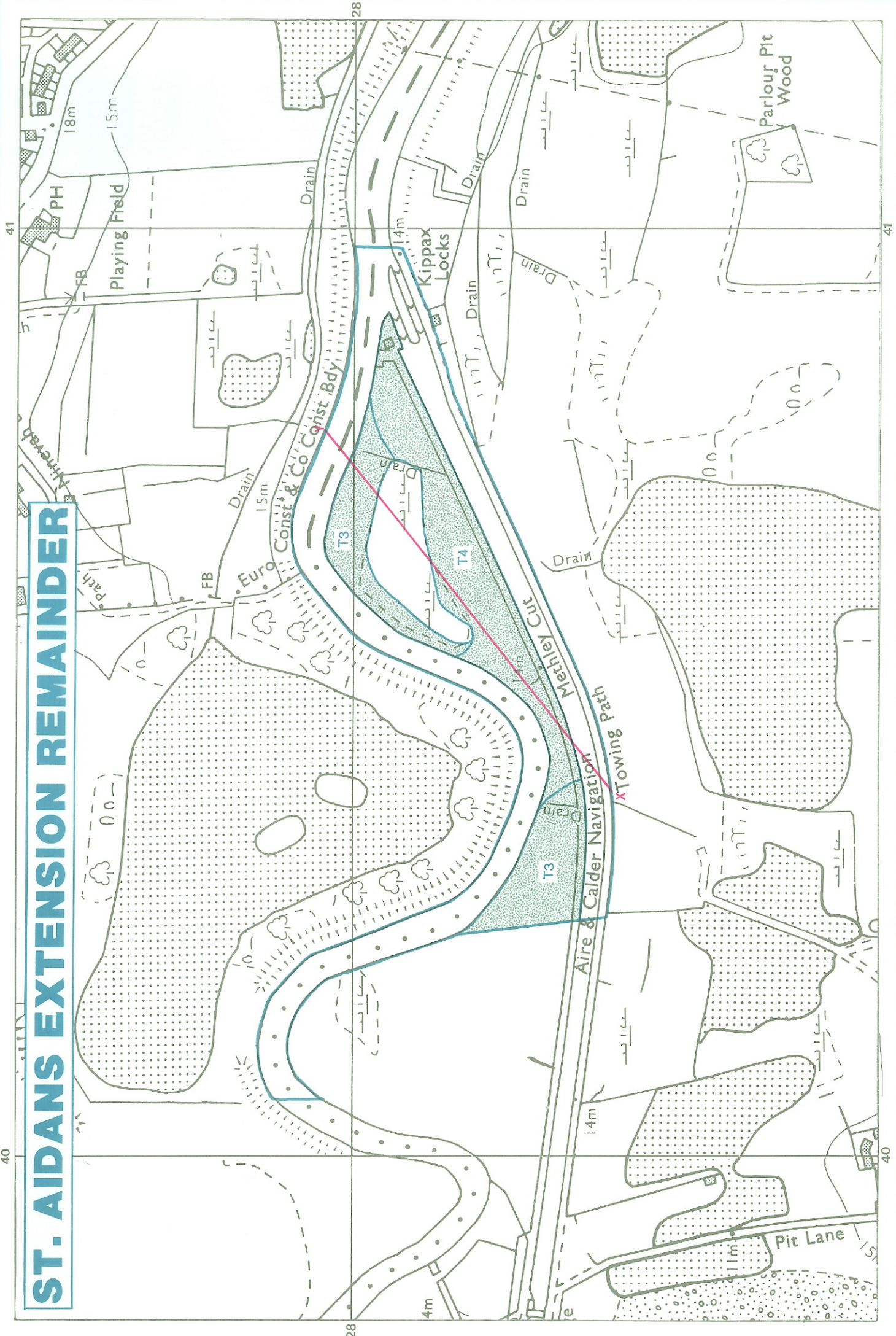
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| 1:10,000 SE 32 NE | |

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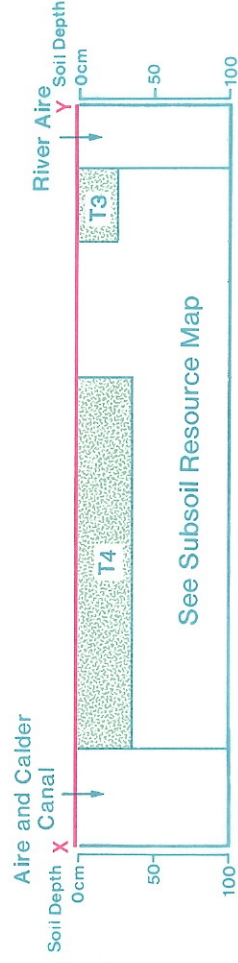
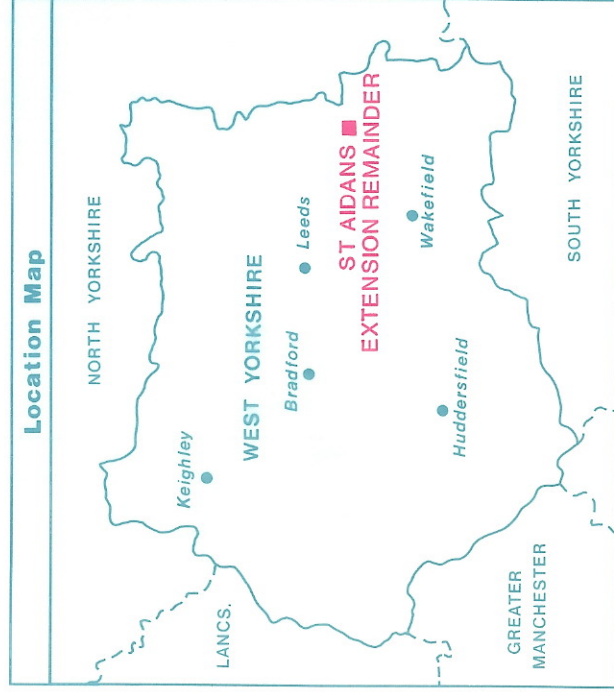
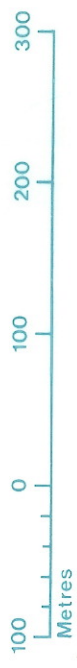
Topsoil Resource Map

| Unit | Soil Texture | Soil Thickness (cm) ^{#1} | | Area (ha) | Volume ^{#2} (000m ³) |
|------|--------------|-----------------------------------|--------------|-----------|---|
| | | Min. | Optimum Max. | | |
| T3 | Light/Medium | 25 | 25 45 | 2.1 | 5.2 |
| T4 | Light | 20 | 35 50 | 2.5 | 8.7 |

^{#1} Lowest depth at which the unit comprises 90% topsoil, or more.

^{#2} Volume at optimum unit depth.

SCALE - 1:5,000

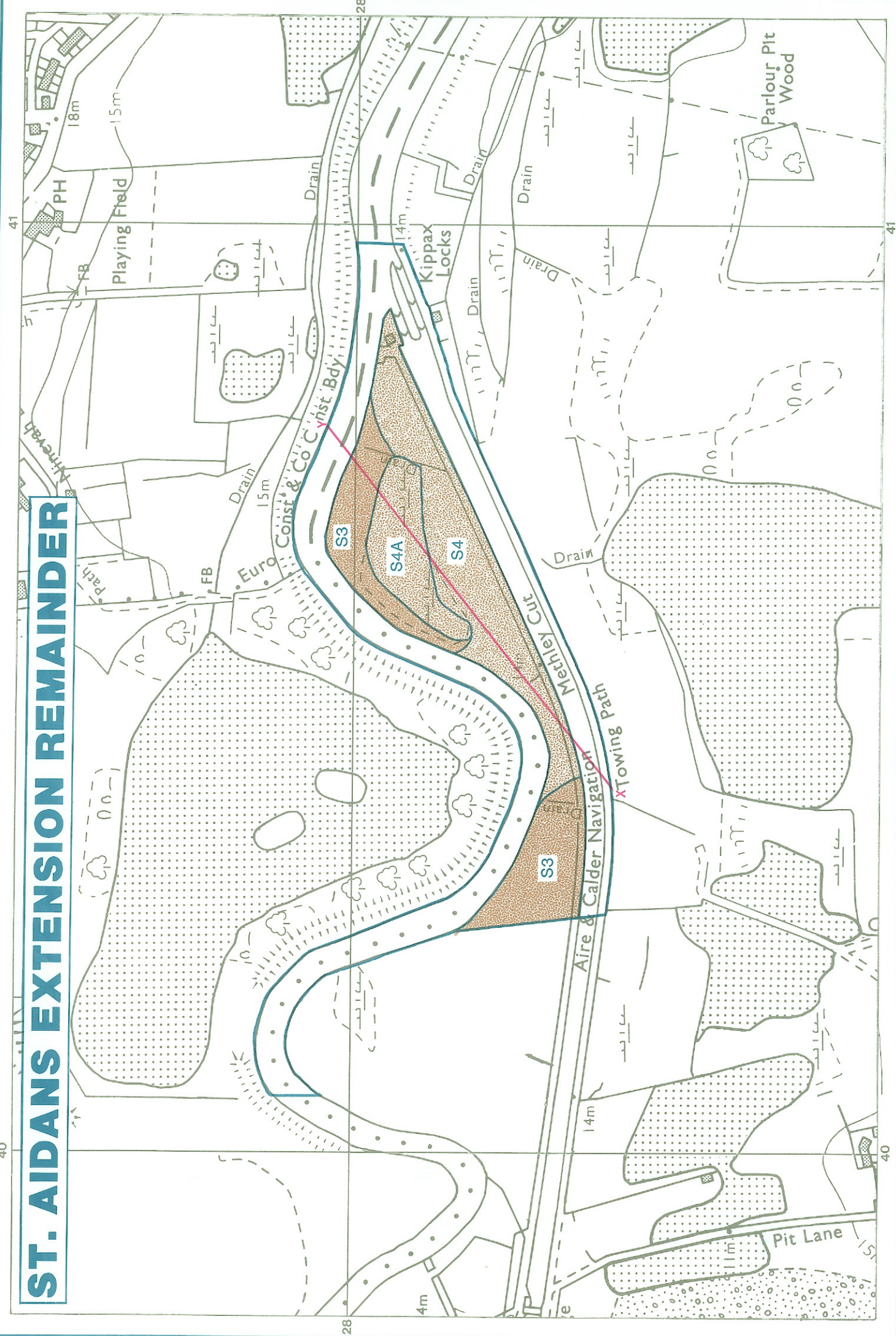


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| 1:10,000 SE 32 NE | |

ST. AIDANS EXTENSION REMAINDER



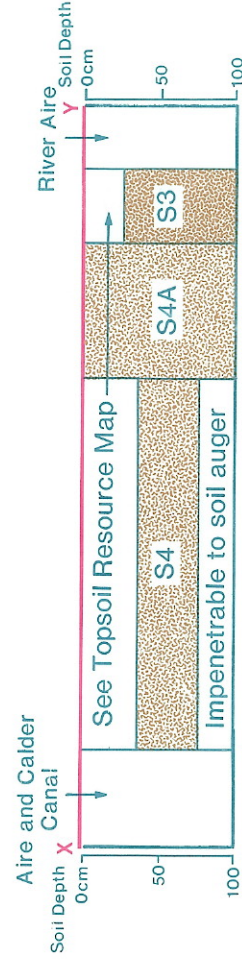
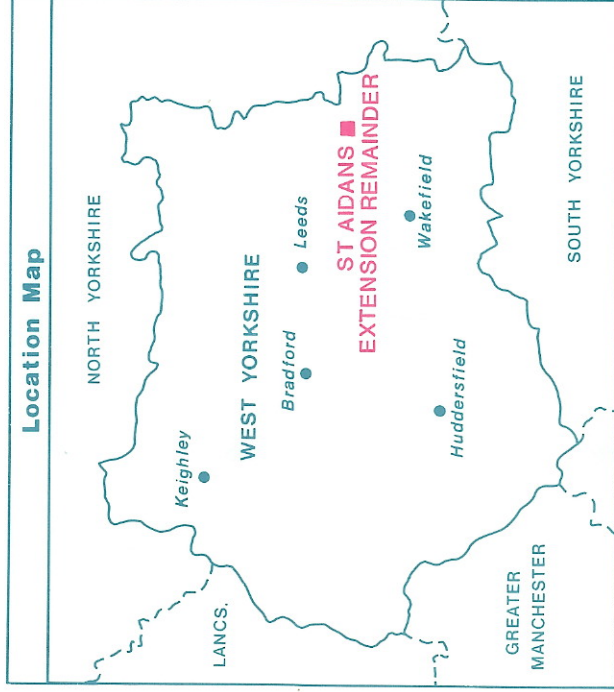
ST. AIDANS EXTENSION REMAINDER

Proposed Opencast Coal Site

Subsoil Resource Map

| Unit | Soil Texture | Mean Soil Thickness(cm) | Area (ha) | Volume (000m ³) |
|------|---------------|-------------------------|-----------|-----------------------------|
| S3 | Medium /Heavy | 75 | 2.1 | 15.7 |
| S4 | Light | 40 | 2.5 | 10.0 |
| S4A | Light | 100 | 1.0 | 10.0 |

SCALE - 1:5,000



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| 1:10,000 SE 32 NE |