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**PHASE 1 (WITH SOME PHASE 2)  
HABITAT SURVEY  
OF THE DISUSED RAILWAY LINE  
BETWEEN WHITBY AND SCARBOROUGH**

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**PHASE 1 HABITAT SURVEY**

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BOTANICAL SURVEY OF THE DISUSED RAILWAY LINE  
BETWEEN WHITBY AND SCALBY

INTRODUCTORY NOTES

The survey which is described in this report was conducted in July, 1995.

The first part, and bulk of the report, covers a Phase 1 Habitat Survey of the stretch of disused railway line between Larpool (Whitby) and Scalby (just north of Scarborough) - a distance of 28.4 km. The second part of the report gives the results of the limited amount of Phase 2 survey work which could be carried out within the time available, i.e. preliminary species lists from selected sections of the route. Much more work remains to be done, and many promising sections have been given nothing more than a cursory examination at present.

During the course of the survey a number of transects across the track were recorded by NVQ II trainees as part of their training programme. The positions of the transects have been indicated on the accompanying maps, but the results of their work have been sent to the assessors and there are no copies available for inclusion in this report. It is understood that in due course the information will be returned to the BTCV office in Whitby.

**COMMON HABITAT TYPES**

A very common association was a complex mixture of *Arrhenatherum elatius*, *Chamaenerion angustifolium*, *Urtica dioica* and/or *Rubus fruticosus* agg. In some sections all of these species were growing together and no single species could be called dominant, whilst in other sections there was a complex mosaic of relatively small patches in which one or other of the species was locally dominant. In addition to the dominant species, *Dactylis glomerata* and *Heracleum sphondylium* were almost invariably present in abundance, and there was usually scattered scrub and small trees of *Crataegus monogyna*, *Rosa* spp., *Prunus spinosa*, *Salix caprea*, *Fraxinus excelsior* and/or *Betula pubescens*. Careful thought was given to the best way of colouring the maps in this situation, and the possibility of devising a non-standard colour scheme for the association was considered. Eventually it was decided that the existing standard colours would be retained, by using orange shading as a background colour to indicate neutral unimproved grassland, and superimposing diagonal cross-hatching in terra cotta for the tall ruderal herbs, and green crosses for the scattered scrub and small trees. In situations in which the scrub species were dominant green cross-hatching in both directions was used, and where there were locally dominant patches of ruderal herbs this has been described in the relevant Target Note.

It should be noted that in this situation the determination of the dominant species in the association could well depend upon the time of year in which the assessment is made. In spring and early summer it could well be that *Arrhenatherum* would appear to be dominant, whereas later in the year one or other of the ruderal herbs might have taken over.

A further problem was whether *Rubus fruticosus* agg. should be classified as a ruderal herb or as scrub. In order to keep the colouring of the maps as simple as possible, the procedure adopted was to call the species a ruderal herb when it was present in association with *Chamaenerion* and/or *Urtica*, and scrub when in association with *Crataegus* or other scrub species. In either case, the presence of *Rubus fruticosus* agg. in a section was indicated in the appropriate Target Note.

In addition to the complex associations described above there were significant areas of woodland, usually on high embankments over streams, whilst in deep cuttings there were often patches of dry acidic dwarf shrub heath on the steep slopes. Some of the cuttings have been colonised by neutral to basic grassland which is rich in both forbs and grass species, and the future management of these areas should be given careful consideration.

#### NOTES ON CERTAIN SPECIES

Apple trees were frequently found scattered along the track. These have been listed as *Malus sylvestris* on the species lists, although it is assumed that the vast majority of specimens are of the cultivated apple, having grown as the result of someone ejecting an apple core through the window of a passing train.

The identifications of the *Rosa* spp. should be taken as tentative, particularly *Rosa rubiginosa* and *Rosa villosa*. These need to be reviewed once the hips are ripe.

No attempt has been made to identify the *Hieracium* and *Taraxacum* species, although at least in the case of the former aggregate more than one microspecies is present. In the case of the ferns, however, the identifications have been made with confidence.

#### OTHER POINTS

It should be noted that the species lists have been drawn up in the month of July. The lists will undoubtedly be expanded if the survey area is re-examined in spring and again in late summer or autumn.

At the time of colouring in the maps, the senior author did not have a copy of the Phase 1 Habitat Manual available. Sections 14 and 29 need to be coloured with the shading system for disturbed ground, whilst sections 110 and 115 contain planted coniferous woodland.

**BOTANICAL SURVEY OF THE DISUSED RAILWAY LINE  
BETWEEN WHITBY AND SCALBY**

**TARGET NOTES**

- |    |                                    |               |   |
|----|------------------------------------|---------------|---|
| 1. | 898092<br>From Larpool<br>Lane     | 27.6.95<br>KT | <p>Mosaic of neutral grassland and tall ruderal herbs with scattered trees. Grasses dominated by <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> with <i>Lolium perenne</i> and <i>Poa annua</i> in the trampled areas on the fringes of the track, the tall grasses intermingling with <i>Heracleum sphondylium</i>, <i>Rubus fruticosus</i> agg., <i>Urtica dioica</i>, <i>Anthriscus sylvestris</i> and other tall herbs. Trees and shrubs, which are the dominant vegetation in small areas, are mainly <i>Fraxinus excelsior</i> with scattered specimens of <i>Quercus petraea</i>, <i>Acer pseudoplatanus</i>, <i>Sambucus nigra</i> and <i>Salix caprea</i>. Notable plants on the bridges include <i>Asplenium ruta-muraria</i>, <i>Phyllitis scolopendrium</i>, <i>Hordeum murinum</i>, <i>Rumex crispus</i> and <i>Hedera helix</i>.</p> <p>Detailed species list compiled and transect recorded.</p> |
| 2. | 900091<br>Near Larpool             | 27.6.95<br>KT | <p>Dense stand of <i>Salix caprea</i> with scattered <i>Quercus petraea</i>, <i>Acer campestre</i>, <i>Acer pseudoplatanus</i> and <i>Fraxinus excelsior</i>, all about 8 metres tall - woodland rather than scrub. Ground flora dominated by <i>Rubus fruticosus</i> agg., <i>Urtica dioica</i>, <i>Heracleum sphondylium</i>, <i>Mercurialis perennis</i> and <i>Galium aparine</i>. There are scattered open spaces dominated by <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> with mixed forbs.</p> <p>Detailed species list compiled and transect recorded.</p>   |
| 3. | 901090<br>Beside Cock<br>Mill Wood | 27.6.95<br>KT | <p>Mosaic of neutral grassland and tall ruderal herbs with scattered scrub of <i>Salix caprea</i> and <i>Crataegus monogyna</i>. Grasses dominated by <i>Arrhenatherum elatius</i>, with <i>Rubus fruticosus</i> agg., <i>Urtica dioica</i> and other tall herbs.</p> <p>Detailed species list compiled and transect recorded.</p>  |

4. 903089 27.6.95 Dense stand of *Salix caprea* with scattered  
Beside Cock KT *Quercus petraea*, *Acer pseudoplatanus*  
Mill Wood *Fraxinus excelsior* and *Betula verrucosa*, with  
an understorey of *Crataegus monogyna* and *Rosa*  
spp. in places. *Heracleum sphondylium*,  
*Brachypodium sylvaticum*, *Bromus ramosus* and  
*Arrhenatherum elatius* are abundant components  
of the ground cover, and the ferns *Dryopteris*  
*filix-mas*, *Dryopteris dilatata* and *Dryopteris*  
*affinis* morphotype *robusta* are common. Other  
notable plants include *Epipactis helleborine*  
(one plant), *Dactylorchis fuchsii*, *Campanula*  
*latifolia* and *Rhododendron ponticum*.
5. 905087 27.6.95 Tall scrub of *Salix caprea*, mostly forming a  
Beside Cock KT nearly closed canopy but with some open spaces,  
Mill Wood with scattered *Crataegus monogyna*, *Quercus*  
*petraea*, *Acer pseudoplatanus*, *Betula verrucosa*,  
*Fraxinus excelsior* and *Rosa* spp. Ground flora  
dominated by *Urtica dioica*, *Arrhenatherum*  
*elatius*, *Dactylis glomerata* and *Heracleum*  
*sphondylium*.
6. 910086 27.6.96 50:50 mosaic of scrub and ruderal herbs mixed  
Near Stainsacre KT with neutral grassland. The scrub is dominated  
by short *Salix caprea*, other species being  
*Betula verrucosa*, *Crataegus monogyna* and *Rosa*  
*canina*. The ruderal herbs are dominated by  
*Chamaenerion angustifolium* mixed with  
*Arrhenatherum elatius*, with *Urtica dioica* and  
*Rubus fruticosus* agg. being locally dominant.  
Other abundant herbs are *Centaurea nigra*,  
*Lathyrus pratensis* and *Heracleum sphondylium*.
7. 915085 27.6.95 Neutral herb-rich grassland, dominated by  
Stainsacre KT *Arrhenatherum elatius*, with *Equisetum arvense*,  
*Hypochoeris radicata*, *Lotus corniculatus*, and  
*Anthriscus sylvestris*, with patches of *Rubus*  
*fruticosus* agg., *Urtica dioica*, *Chamaenerion*  
*angustifolium* and *Festuca ovina*. Notable  
plants include the garden escapes *Cerastium*  
*tomentosum* and one plant of *Buddleia* sp.
- The section might be worth further study.
8. 916085 27.6.95 Mosaic of neutral grassland and tall ruderal  
Stainsacre KT herbs with scattered scrub of *Crataegus*  
*monogyna*. Grasses dominated by *Arrhenatherum*  
*elatius*, with *Rubus fruticosus* agg.,  
*Chamaenerion angustifolium*, *Urtica dioica*,  
*Heracleum sphondylium*, *Anthriscus sylvestris*  
and *Centaurea nigra*. Exotic species have been  
planted in front of the houses on the south  
side of the track.

9. 917084 27.6.95  
Near Stainsacre KT  
Mosaic of fairly dense scattered scrub with patches of neutral grassland and tall ruderal herbs. The scrub is dominated by *Salix caprea* and *Crataegus monogyna*, with *Ulex europaeus*, *Prunus spinosa* and *Rosa* spp. Open spaces dominated by *Arrhenatherum elatius*, with *Rubus fruticosus* agg., *Urtica dioica*, *Chamaenerion angustifolium*, *Calystegia sepium* ssp. *silvatica*, and *Centaurea nigra*. There are a few plants of *Sonchus arvensis*.
10. 920082 27.6.95  
Near Stainsacre KT  
Neutral grassland, dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Equisetum arvense*, *Heracleum sphondylium*, *Lathyrus pratensis*, *Trifolium pratense*, *Lotus corniculatus* and a few patches of *Urtica dioica* and very few small bushes of *Salix caprea*.
11. 921081 27.6.95  
Near Stainsacre KT  
Mosaic of scattered scrub with neutral grassland and tall ruderal herbs. The scrub is dominated by *Salix caprea*, *Salix cinerea*, *Crataegus monogyna* and *Rosa* spp. Open spaces dominated by *Arrhenatherum elatius*, with *Rubus fruticosus* agg., *Urtica dioica*, *Chamaenerion angustifolium*, *Dactylis glomerata* and *Centaurea nigra*. This type of vegetation continues in a strip along the southern edge of the disused sidings and Hawsker Station, and, as section 13, along the track to the east of the station.
12. 922081 27.6.95  
Hawsker Station KT  
Neutral herb-rich grassland, with locally dominant patches of *Festuca rubra* and, *Arrhenatherum elatius*, with *Plantago lanceolata*, *Dactylis glomerata*, *Holcus lanatus*, *Lotus corniculatus*, *Trifolium dubium*, *Trifolium repens*, *Trifolium pratense*, *Centaurea nigra*, *Heracleum sphondylium*, *Ranunculus acris*, *Ranunculus repens*, *Cerastium fontanum* and *Leontodon hispidus* being abundant, with a few patches of *Chamaenerion angustifolium* and *Rubus fruticosus* agg. Patches of scrub occur by the road and in front of the platform, the former containing *Salix* spp., *Ligustrum vulgare*, *Acer pseudoplatanus*, *Sambucus nigra*, *Fraxinus excelsior*, *Sorbus aucuparia*, *Quercus petraea*, *Betula verrucosa* and *Crataegus monogyna* with patches of *Rubus fruticosus* agg., *Urtica dioica* and *Cirsium arvense*; the latter including *Sorbus aucuparia*, *Ligustrum vulgare*, *Ilex aquifolium*, *Rosa rugosa*, *Quercus robur* and *Salix cinerea*. Notable plants include *Crepis vesicaria*, *Chaenorhinum minus* and *Hieraceum brunneocroceum*, and there are other bushes of *Rosa rugosa* by the station buildings.



Section 12 ought to be given further study.

13. 924079                      27.6.95  
Near Hawsker                      KT
- Mosaic of scattered scrub with neutral grassland and tall ruderal herbs. The scrub is dominated by *Salix caprea*, *Salix cinerea*, *Crataegus monogyna*, *Prunus spinosa* and *Rosa* spp. Open spaces dominated by *Arrhenatherum elatius*, with *Rubus fruticosus* agg., *Urtica dioica*, *Chamaenerion angustifolium*, *Dactylis glomerata* and *Centaurea nigra*. Some garden escapes are found in front of the houses, including *Symphoricarpos rivularis*, *Prunus* sp., ornamental *Sambucus nigra* and *Armoracia rusticana*. Notable plants include a single specimen of *Meconopsis cambrica*, and *Trifolium hybridum*, which is growing between the gate and the main road at the end of the section.
14. 924078                      27.6.95  
Near Hawsker                      KT
- Farmyard contiguous with the track, with patches of vegetation indicative of disturbed ground, including *Symphytum officinale*, *Atriplex* sp., *Cirsium arvense*, *Sonchus* spp., *Arrhenatherum elatius*, *Senecio vulgaris*, *Sisymbrium officinale*, *Ranunculus repens*, *Heracleum sphondylium*, *Matricaria matricarioides*, *Lamium purpureum*, *Veronica persica*, *Polygonum aviculare*, *Papaver rhoeas*, *Stellaria media* and others. On the south side of the track the neutral grassland with scattered scrub continues from section 13.
- The farmer is maintaining an area of about 6 sq m of herb-rich grassland by the gate. The patch contains *Chrysanthemum leucanthemum*, *Trifolium pratense*, *Vicia cracca*, *Lotus corniculatus*, *Tussilago farfara*, *Cynosurus cristatus*, *Holcus lanatus* and others.
15. 925078                      27.6.95  
Near Hawsker                      KT
- Mosaic of scattered scrub with neutral grassland and tall ruderal herbs. The scrub is dominated by *Crataegus monogyna* and *Rosa* spp.; the grassland is dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Rubus fruticosus* agg., *Urtica dioica*, *Heracleum sphondylium*, *Anthriscus sylvestris*, *Chamaenerion angustifolium* and *Holcus lanatus*. *Lolium perenne* and *Poa annua* are dominant in the trampled area along the sides of the track. On the north side of the track there are areas of shorter grasses containing forbs such as *Lotus corniculatus*, *Centaurea nigra*, *Chrysanthemum leucanthemum* and *Trifolium* spp. In places *Equisetum arvense* is co-dominant with the grasses. Just outside of the survey area, *Trifolium campestre* is growing in the roadside grass verge in front of the gates.

16. 933078                      27.6.95  
Near Hawsker                      KT
- Neutral herb-rich grassland, with *Arrhenatherum elatius* and *Dactylis glomerata* co-dominant over most of the area, large patches in which *Equisetum arvense* is co-dominant, and *Lolium perenne* and *Poa annua* co-dominant in the trampled areas alongside the track. *Urtica dioica* and *Rubus fruticosus* are dominant in small patches. There are a few scattered bushes of *Crataegus monogyna*, *Prunus spinosa* and *Rosa* sp. Other common plants include *Holcus lanatus*, *Lotus corniculatus*, *Trifolium dubium*, *Trifolium repens*, *Centaurea nigra*, *Heracleum sphondylium*, *Cirsium arvense* and *Lathyrus pratensis*.
- The section could be given further study since it is representative of neutral herb-rich grassland.
17. 935078                      26.6.95  
Hawsker Bottoms                      KT
- Neutral grassland, with scattered scrub, *Arrhenatherum elatius* and *Dactylis glomerata* being co-dominant. Scrub species include *Crataegus monogyna* and *Rosa canina*, with patches of *Rubus fruticosus* agg. Notable plants include a few specimens of *Dactylorhiza fuchsii* on the south side of the track and *Ranunculus bulbosus* in front of a gate on the north side.
- Transect and full species list recorded.
18. 936078                      26.6.95  
Hawsker Bottoms                      KT
- The south side of the cutting has a species composition similar to that of section 17, including *Dactylorhiza fuchsii*, *Rosa canina*, *Rosa caesia* ssp. *glauca*, *Rosa villosa?* and *Viola* sp. The north side of the cutting has a mosaic of fairly dense scrub with patches of base-rich herb-rich grassland, containing *Briza media*, *Cynosurus cristatus*, *Anthoxanthum odoratum*, *Leontodon hispidus*, *Lotus corniculatus* and many others. The scrub species include *Crataegus monogyna* and *Rosa canina*.
- Transect and full species list recorded.

19. 937077 26.6.95  
Hawsker Bottoms KT
- Steep-sided embankment, the south side being dominated by dense scrub of *Crataegus monogyna* with patches of *Rubus fruticosus*. The north side is dominated by *Pteridium aquilinum* with a few scattered *Fraxinus excelsior*, *Crataegus monogyna* and *Rosa* spp., including *Rosa villosa*. *Arrhenatherum elatius* is abundant and there are some woodland species under the *Pteridium*, including *Hyacinthoides non-scripta*, *Anemone nemorosa*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis* and *Dryopteris dilatata*. *Ajuga reptans* grows near the foot of the slope on the south side.

Transect and full species list recorded.

20. 939077 29.6.95  
Hawsker Bottoms KT
- Neutral grassland, with scattered short scrub, *Arrhenatherum elatius* and *Rubus fruticosus* agg. being dominant. Scrub species include *Crataegus monogyna*, *Rosa canina*, *Betula verrucosa* and *Ulex europaeus*. *Heracleum sphondylium*, *Dactylis glomerata*, *Lotus corniculatus*, *Plantago lanceolata*, *Centaurea nigra* and *Chamaenerion angustifolium* are abundant, with *Lolium perenne* beside the track and in front of the gates, and *Equisetum arvense* being co-dominant with the grasses in the more exposed parts of the embankment. *Stellaria graminea*, *Tussilago farfara* and *Rumex obtusifolius* occur by the bridge. To the east of the bridge *Crataegus-Rosa* scrub is dominant on the side of the embankment on the south side of the track, but *Arrhenatherum* and *Rubus* are dominant between the foot of the embankment and the fence. Notable plants include *Trifolium medium* and a single bush of *Spiraea* sp.

Transect and full species list recorded.

21. 942075 29.6.95 This section is split longitudinally into three  
Near Hawsker 29.6.95 distinct habitats. The embankment on the  
Bottoms KT southern side is a continuation of section 20,  
consisting of neutral grassland with scattered  
scrub. To the north of the track the area is  
bisected by a low embankment which is mostly  
covered by fairly dense scrub, to the north of  
which is neutral grassland with scattered  
scrub. The central strip is a complex habitat  
with a species composition which suggests a  
mosaic of acidic and basic conditions,  
including a number of species not found  
elsewhere on the survey, some of which are  
uncommon. The species include *Briza media*,  
*Cynosurus cristatus*, *Anthoxanthum odoratum*,  
*Agrostis gigantea*, *Carex flacca*, *Cirsium*  
*palustre*, *Hypericum pulchrum*, *Juncus*  
*conglomeratus*, *Leontodon taraxacoides*, *Linum*  
*catharticum*, *Ononis repens*, *Dactylorhiza*  
*purpurella*, *Dactylorhiza fuchsii*, *Listera*  
*ovata*, *Pulicaria dysenterica*, *Rhinanthus minor*,  
*Stellaria graminea* and many others. The scrub  
species include *Crataegus monogyna* and *Rosa*  
*canina*.
- This area may be worthy of conservation, and  
ought to be studied more intensively. Full  
species list recorded.
22. 943075 29.6.95 Neutral grassland, with scattered scrub,  
Near Bottom 29.6.95 *Arrhenatherum elatius* and *Rubus fruticosus* agg.  
House KT being dominant. Scrub species are locally  
dominant and include *Salix caprea*, *Crataegus*  
*monogyna*, *Rosa canina*, and *Prunus spinosa*.
23. 944074 29.6.95 Neutral to acidic grassland, with *Arrhenatherum*  
Near Bottom 29.6.95 *elatius* and *Dactylis glomerata* being dominant  
House KT and *Equisetum arvense* co-dominant in the more  
exposed areas on the north side of the track.  
*Rubus fruticosus* agg. is frequent on the south  
side. There are very few shrubs of *Crataegus*  
*monogyna* and *Salix caprea*. *Heraclium*  
*sphondylium*, *Lotus corniculatus*, *Plantago*  
*lanceolata*, *Centaurea nigra*, *Cirsium arvense*  
and *Achillea millefolium* are abundant, and  
there is one patch of *Galium saxatile*.
24. 946073 29.6.95 Locally dominant patches of *Rubus fruticosus*  
Near Bottom 29.6.95 agg., *Ulex europaeus* and *Pteridium aquilinum*  
House KT with an admixture of *Arrhenatherum elatius* and  
*Dactylis glomerata*.

25. 946072 29.6.95 Continuous *Pteridium aquilinum* with one tree  
Near Bottom KT of *Malus sylvestris*, on north side of cutting.  
House
26. 946072 29.6.95 Dry dwarf shrub heath, acidic, with *Erica*  
Near Bottom KT *cinerea* and *Deschampsia flexuosa* dominant in  
House patches, with *Teucrium scorodonia* and *Stachys officinalis*. In other patches *Rubus fruticosus* agg. or *Chamaenerion angustifolium* are dominant. Towards the foot of the slope *Dryopteris dilatata*, *Dryopteris filix-mas* and *Dryopteris affinis* morphotype *affinis* are common. Towards the eastern end of the cutting *Pteridium aquilinum* is dominant, mixed with *Arrhenatherum elatius*, and there are thickets of *Ulex europaeus*.
- The section might be worth further study.
27. 947072 29.6.95 Neutral grassland/*Rubus fruticosus* agg. mixture  
Near Bottom KT on the north side of the track, with  
House *Arrhenatherum elatius* being the dominant grass. On the south side *Pteridium aquilinum* is dominant. *Lotus corniculatus* is abundant in the shorter turf beside the track.
28. 948071 29.6.95 Neutral grassland, with *Arrhenatherum elatius*  
Near Bottom KT and *Dactylis glomerata* being dominant, and  
House *Equisetum arvense* co-dominant in places. There are very few shrubs of *Crataegus monogyna* and *Salix caprea*, and one *Malus sylvestris*. *Heracleum sphondylium* is abundant.
29. 949071 29.6.95 The first part of the cutting has a complex  
Near Rain Dale KT mosaic of vegetation. The south side is mainly by dry acidic dwarf shrub heath dominated by *Erica cinerea* with occasional *Calluna vulgaris*, with patches of *Deschampsia flexuosa*, *Vaccinium myrtillus*, *Rubus fruticosus* agg. and *Chamaenerion angustifolium*. The north side has patches of *Ulex europaeus* interspersed with disturbed ground on which *Aira praecox*, *Hieracium pilosella*, *Centaurea nigra*, *Hypochaeris radicata* and *Rumex acetosella* are abundant.

The section might be worth further study.

30. 950071 29.6.95  
Near Rain Dale KT
- In the same cutting as section 29, further east. *Rubus fruticosus* and *Ulex europaeus* are dominant, with *Crataegus monogyna*, *Salix caprea*, *Sorbus aucuparia* and occasional *Ulmus glabra* and *Malus sylvestris*. Also patches of *Chamaenerion angustifolium* and *Arrhenatherum elatius* with *Dactylis glomerata*. *Heracleum sphondylium* is abundant, and there are a few plants of *Dactylorhiza fuchsii* by the ditch alongside the track.
- The section might be worth further study.
31. 951070 29.6.95  
Near Rain Dale KT
- Steep embankment with neutral grassland characterised by *Arrhenatherum elatius* being dominant, with locally dominant patches of *Ulex europaeus*, *Pteridium aquilinum* and *Rubus fruticosus* agg., and a few shrubs of *Crataegus monogyna* and *Rosa* sp.
32. 952069 29.6.95  
Rain Dale KT
- Cutting colonised by patches of *Pteridium aquilinum* and *Ulex europaeus*, with scattered *Crataegus monogyna* and *Salix caprea*, and a few *Rosa villosa*. At the head of Rain Dale *Plantago maritima* is growing on the rocky outcrop north of the track, and *Solidago virgaurea* is nearby.
- Rain Dale head might be worth further study.
33. 953068 29.6.95  
Rain Dale KT
- Cutting on northern side of track, colonised by a mosaic of patches of *Pteridium aquilinum* and *Ulex europaeus* and some *Rubus fruticosus* agg. in places.
34. 952068 29.6.95  
Rain Dale KT
- Deep cutting on southern side of track, colonised by a mosaic of patches of *Pteridium aquilinum*, *Chamaenerion angustifolium* and *Erica cinerea* with *Calluna vulgaris*, *Deschampsia flexuosa* and *Teucrium scorodonium*. Scattered bushes of *Ulex europaeus*. *Solidago virgaurea* is relatively common.
- The section might be worth further study.

35. 953068 29.6.95  
Near Rain Dale KT
- Continuation of the same cutting as section 34. On the upper parts of the slope dry acidic dwarf shrub heath is dominant, characterised by *Erica cinerea* with *Calluna vulgaris* and *Deschampsia flexuosa*. There are scattered patches of *Pteridium aquilinum*, *Rosa* sp., *Rubus fruticosus* agg., and *Eupatorium cannabinus*. The top of the slope is dominated by neutral grassland of *Arrhenatherum elatius*, whilst *Dactylorhiza fuchsii*, *Dryopteris filix-mas*, *Dryopteris dilatata*, *Athyrium filix-femina*, *Lotus uliginosus*, *Juncus articulatus* and *Juncus bufonius* grow in damp ground at the foot of the slope.
- The section might be worth further study.
36. 954067 29.6.95  
Near Rain Dale KT
- Steep embankment with neutral grassland characterised by *Arrhenatherum elatius* being dominant, mixed with *Equisetum arvense* on the north side of the track and a few patches of *Rubus fruticosus* agg., and *Chamaenerion angustifolium*.
37. 954066 29.6.95  
Near Rain Dale KT
- The area has a complex mosaic of vegetation, with patches of *Pteridium aquilinum*, areas in which *Arrhenatherum elatius* is dominant, and others in which *Arrhenatherum* and *Rubus fruticosus* agg. are co-dominant, all with scattered scrub of *Salix caprea* (and one *Malus* sp.).
38. 955065 29.6.95  
Near Bay Ness KT
- Deep cutting. On the south-west side of the track dry acidic dwarf shrub heath is dominant, characterised by *Calluna vulgaris* and *Deschampsia flexuosa*, with *Galium saxatile*. *Pteridium aquilinum* is dominant on the north-east side, and also occurs in patches on the south-west side. Trampled ground beside the track is dominated by *Lolium perenne*. On the north-east side there is a small patch of disturbed ground (due to soil slippage) in which *Aira praecox*, *Hieracium pilosella*, *Agrostis capillaris*, *Digitalis purpurea* (1 plant) and other species are found. Occasional plants of *Acer pseudoplatanus*, *Salix caprea*, *Ulex europaeus* and *Malus* sp. are found on both sides of the track.

The section might be worth further study.

- ~~39.~~ 955065 29.6.95  
Near Bay Ness KT Embankment on which *Pteridium aquilinum* is dominant, intermixed with *Arrhenatherum elatius*. There are locally dominant patches of *Chamaenerion angustifolium*, and *Arrhenatherum elatius* co-dominant with *Rubus fruticosus* agg.
40. 955064 29.6.95  
Near Bay Ness KT The west side is dominated by *Salix* sp; the east by *Arrhenatherum elatius* co-dominant with *Rubus fruticosus*, with scattered patches of *Pteridium aquilinum* and *Chamaenerion angustifolium*. Also one tree of *Malus* sp.
41. 956063 29.6.95  
Near Bay Ness KT Dominant *Pteridium aquilinum* intermixed with *Arrhenatherum elatius* and abundant *Dactylis glomerata* and *Heracleum sphondylium*. Also scattered patches of *Rubus fruticosus* agg., and *Chamaenerion angustifolium*, and bushes of *Salix* sp.
42. 956061 29.6.95  
Near Bay Ness KT Complex mosaic of vegetation. On the east side of the track *Rubus fruticosus* and *Ulex europaeus* are dominant, with locally dominant patches of *Festuca rubra*, *Arrhenatherum elatius*, *Chamaenerion angustifolium*, *Urtica dioica*, *Teucrium scorodonia* and an association of *Arrhenatherum elatius*, *Dactylis glomerata* and *Equisetum arvense*. Notable plants include *Festuca arundinacea*, *Senecio sylvaticus* and *Ononis repens*. On the west side of the track *Rubus fruticosus* agg., and *Ulex europaeus* are also dominant over the northern part of the section, with scattered scrub/small trees of *Salix cinerea*, *Salix caprea*, *Rosa canina*, *Acer pseudoplatanus* and *Quercus* hybrid. There is also one *Sorbus aria*, and one patch of *Eupatorium cannabinum*. Towards the southern end of the section the frequency of *Ulex europaeus* decreases, whilst *Rubus fruticosus* agg. and *Urtica dioica* increase. *Heracleum sphondylium* is abundant throughout the section.



43. 955058 29.6.95 Cutting with neutral grassland/scrub mosaic on  
Near Robin KT the western side, *Arrhenatherum elatius* being  
Hood's Bay dominant, with frequent *Salix* spp., *Crataegus  
monogyna*, *Rosa canina* and occasional patches of  
*Rubus fruticosus* agg. On the eastern side  
*Rubus fruticosus* agg. and *Arrhenatherum elatius*  
are co-dominant in most areas, with locally  
dominant patches of *Rubus fruticosus* agg.,  
*Urtica dioica* and *Chamaenerion angustifolium*.  
There are also some patches of *Equisetum  
arvense*, *Cirsium arvense* and *Eupatorium  
cannabinum* and few shrubs of *Crataegus monogyna*  
and *Salix* sp. (*aurita* hybrid?). *Heracleum  
sphondylium* is abundant on both sides of the  
track.
44. 954057 29.6.95 Cutting dominated by scrub and ruderal herbs.  
Near Robin KT The eastern side is covered with patches of  
Hood's Bay *Rubus fruticosus* agg. and *Urtica dioica*, whilst  
the western side is dominated by *Crataegus  
monogyna*, *Rosa* spp. and *Salix* spp. with a field  
layer of *Urtica dioica*, *Silene dioica* and  
*Heracleum sphondylium*.
45. 953056 29.6.95 Cutting with a complex mosaic of vegetation, in  
Near Robin KT the most part dominated by *Rubus fruticosus*  
Hood's Bay agg. and *Urtica dioica*. *Arrhenatherum elatius*  
is usually intermixed with the dominant  
species, and in some places is itself dominant  
in patches of neutral grassland, or in  
association with *Equisetum arvense*. There are  
scattered *Crataegus monogyna*, *Sambucus nigra*  
and *Rosa* spp. *Silene dioica* and *Heracleum  
sphondylium* are abundant, as is *Anthriscus  
sylvestris* just before the gate. Notable  
plants include *Lysimachia punctata* and, in the  
mown sward beyond the gate, *Hieracium  
brunneocroceum*.
46. 948053 12.7.95 Not recorded. Number reserved in case the area  
is surveyed in future.
47. 947052 12.7.95 Short stretch of semi-natural broad-leaved  
Robin Hood's KT woodland, with *Acer pseudoplatanus*, *Fraxinus  
excelsior* and *Salix caprea* and several herbs  
Bay which, although common, were not found  
elsewhere on the survey, including *Elymus  
repens*, *Chaerophyllum temulentum* and *Calystegia  
silvatica*. The field layer consists largely of  
tall ruderal herbs, especially *Urtica dioica*.

48. 946051 Robin Hood's Bay 12/7/95 KT  
 Dominated by tall ruderal herbs, especially *Chamaenerion angustifolium* and *Urtica dioica* with *Rubus fruticosus* agg. *Lolium perenne* is dominant beside the track. Other abundant plants include *Anthriscus sylvestris*, *Cirsium arvense* and *Galium aparine*. *Calystegia silvatica* also occurs in patches. There are a few scattered small trees, including *Sorbus aucuparia*, *Acer pseudoplatanus*, *Acer campestre*, *Fagus sylvatica* and *Pinus sylvestris*.  
 Transect recorded.
49. 946050 Fylingthorpe 12.7.95 KT  
 Similar to the previous section but with about 50% cover of shrubs and trees, including *Salix caprea*, *Salix cinerea*, *Rosa canina*, *Sambucus nigra*, *Alnus glutinosus*, *Sorbus aucuparia*, *Acer pseudoplatanus*, *Acer campestre*, *Fraxinus excelsior*, *Quercus robur*, *Fagus sylvatica* and *Pinus* sp. (non-native). Also one patch of *Pteridium aquilinum*.
50. 945049 Fylingthorpe 12.7.95 KT  
 Semi-natural deciduous woodland, with *Fraxinus excelsior* dominant, other species including *Quercus robur*, *Acer pseudoplatanus*, *Crataegus monogyna* and a few *Ilex aquifolium*. The field layer is dominated by ferns with rather weak *Rubus fruticosus* agg. and *Urtica dioica*, the ferns including *Dryopteris filix-mas*, *Dryopteris dilatata*, *Dryopteris affinis* morphotype *affinis* and *Polystichum setiferum*. There are patches of *Mercurialis perennis*, and *Hedera helix* carpets the ground. Plants found rarely on the survey include *Bromus ramosus* and *Festuca gigantea*.  
 Transect recorded. The area ought to be given a more detailed survey.
51. 945048 Fylingthorpe 12.7.95 KT  
 Open semi-natural deciduous woodland/scrub mosaic, with *Fraxinus excelsior*, *Acer pseudoplatanus*, tall *Salix caprea* and occasional *Crataegus monogyna*, *Rosa canina*, *Sorbus aucuparia*, *Quercus robur*, *Acer campestre*, *Pinus* sp., and recently planted *Alnus glutinosa*. Open spaces dominated by ruderal herbs, including *Rubus fruticosus* agg., *Urtica dioica*, *Rubus idaeus* and *Chamaenerion angustifolium*.

52. 946046 12.7.95 Open scrub/young trees with tall ruderal herb  
Fylingthorpe KT mosaic, with the scrub/young trees covering  
about 50% of the ground. Species include  
*Crataegus monogyna*, *Salix caprea*, *Salix*  
*cinerea*, *Fraxinus excelsior*, *Sorbus aucuparia*,  
*Quercus robur*, *Alnus glutinosa*, *Sambucus nigra*,  
*Prunus spinosa*, *Cytisus scoparius*, *Rosa canina*  
and recently planted *Acer campestre*, *Alnus*  
*glutinosa*, *Sorbus aucuparia* and *Fagus*  
*sylvatica*. Open spaces are dominated by *Rubus*  
*fruticosus* agg. *Urtica dioica* and *Chamaenerion*  
*angustifolium*, frequently intermixed with  
*Arrhenatherum elatius*. *Anthriscus sylvestris*  
is abundant.
53. 946044 12.7.95 Co-dominant mixture of *Rubus fruticosus* agg.  
Near KT and *Arrhenatherum elatius*, with one or other of  
Fylingthorpe the partners being dominant, in patches. Other  
abundant plants include *Heracleum sphondylium*,  
*Cirsium arvense*, *Urtica dioica* *Chamaenerion*  
*angustifolium*, *Anthriscus sylvestris* and  
patches of *Equisetum arvense*. The section is  
bordered by a hedge of *Crataegus monogyna* and  
there is one *Salix* sp. (*caprea* x *aurita*  
hybrid?).
54. 947043 12.7.95 The first few metres of fairly dense scrub of  
Near KT *Crataegus monogyna* and *Salix caprea* soon become  
Fylingthorpe semi-natural deciduous woodland of mixed  
species composition, including *Fagus sylvatica*,  
*Fraxinus excelsior*, *Quercus robur*, *Sorbus*  
*aucuparia*, *Malus* sp., *Acer platanoides* and  
*Crataegus monogyna*. Open spaces are dominated  
by *Urtica dioica*, *Rubus fruticosus* agg., and  
*Cirsium arvense*, with *Arrhenatherum elatius*,  
*Holcus lanatus* and *Heracleum sphondylium* being  
abundant. In the wood the field layer consists  
mainly of *Urtica dioica* and *Heracleum*  
*sphondylium*. Just before the bridge the  
section reverts to scrub again, in which there  
are some clumps of *Cytisus scoparius*. A  
notable plant which is found in the roadside  
cutting at the southern end of the section is  
*Senecio erucifolius*.
55. 947042 12.7.95 Fairly dense scrub with *Crataegus monogyna*  
Near KT being dominant, but including *Salix caprea*,  
Fylingthorpe *Prunus spinosa* and *Rosa canina* and occasional  
patches of *Rubus fruticosus* agg. Open spaces  
are dominated by *Arrhenatherum elatius* with  
*Cirsium arvense* and *Galium aparine*. *Heracleum*  
*sphondylium* and *Anthriscus sylvestris* are  
abundant.

56. 946040 12.7.95 Cutting with parallel strips of three types of  
Near Fylingthorpe KT vegetation along the track. Beside the track on both sides is a single row of tall *Salix caprea*, Beyond this, on the banks, is scrub dominated by *Crataegus monogyna*, and beyond this is neutral grassland dominated by *Arrhenatherum elatius* with patches of *Rubus fruticosus* agg., *Cirsium arvense* and other tall ruderal herbs. Woodland herbs grow in abundance under the *Salix* and *Crataegus*, and include *Brachypodium sylvaticum*, *Polystichum setiferum*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis* and *Dryopteris dilatata*. *Heracleum sphondylium* is abundant, and there are a few plants of *Campanula latifolia*.
57. 944058 12.7.95 The first few metres of embankment are covered  
Mill Beck KT with dense scrub of *Crataegus monogyna* with *Ulex europaeus* and *Rosa canina* and *Rubus fruticosus* agg., *Urtica dioica* and *Chamaenerion angustifolium* in the open spaces. This soon merges into semi-natural deciduous woodland dominated by *Fraxinus excelsior* with *Acer campestre*, *Quercus petraea*, *Ulmus glabra*, *Corylus avellana*, *Crataegus monogyna* and *Prunus spinosa*. *Urtica dioica*, *Rubus fruticosus* agg., *Polystichum setiferum*, *Dryopteris affinis* morphotype *affinis* and *Dryopteris filix-mas* dominate the field layer, and there are a few plants of *Phyllitis scolopendrium*. The ground is carpeted by *Hedera helix*. There are a few more open spaces in which *Ulex europaeus*, *Rubus fruticosus* agg., *Urtica dioica*, *Chamaenerion angustifolium* and *Heracleum sphondylium* are abundant.
- The section might be worth further study.
58. 944037 12.7.95 Dense scrub/small tree mixture, with *Salix caprea*  
Near Mill Beck KT and *Crataegus monogyna* dominant, and scattered *Quercus petraea* and *Prunus spinosa*. Few open spaces in which *Chamaenerion angustifolium*, *Rosa canina*, *Urtica dioica* and *Rubus fruticosus* agg. are dominant and *Heracleum sphondylium* is abundant.
59. 945035 12.7.95 Mosaic of dense and more open scrub and patches  
Near White House KT of ruderal herbs. *Salix caprea* grows in a row on either side of the track, but the banks of the cutting are covered with patches of *Rubus fruticosus* agg., *Urtica dioica*, *Cirsium arvense*, *Rosa canina*, *Ulex europaeus*, and frequent *Crataegus monogyna* and *Prunus spinosa*.

60. 945033 17.7.95  
Near Butcher KT  
Close Wood
- Alongside the track dense scrub, as a closely planted line of *Salix caprea*, is dominant on both sides. Between the *Salix* and the boundary fence the area is more open and is dominated by tall ruderal herbs with scattered *Crataegus monogyna* and occasional *Prunus spinosa*, *Sambucus nigra*, *Quercus robur*, *Fraxinus excelsior*, *Acer campestre* and *Rosa canina*. The ruderal herbs are mainly *Chamaenerion angustifolium*, *Urtica dioica*, *Rubus fruticosus* agg. and *Cirsium arvense*, usually growing as a co-dominant mixture. Under the *Salix* the field layer consists largely of *Heracleum sphondylium* and *Urtica dioica*, whilst *Hedera helix* carpets the ground. Other abundant species are *Arrhenatherum elatius* and *Centaurea nigra*. *Sanguisorba officinalis* (not found elsewhere during the survey) is growing by the gate at the northern end of the section.
61. 945032 17.7.95  
Near Butcher KT  
Close Wood
- Semi-natural deciduous woodland. There is a single row of *Salix caprea* on the western side of the track, but eastern side is covered by mixed *Fraxinus excelsior*, *Acer pseudoplatanus*, *Corylus avellana*, *Quercus robur*, *Salix caprea*, and a large thicket of *Prunus spinosa*. The field layer is dominated by *Urtica dioica*, *Mercurialis perennis* and ferns, including *Dryopteris filix-mas*, *Dryopteris dilatata*, *Dryopteris affinis* morphotypes *robusta* and *paleaceo-lobata*, *Polystichum setiferum* and *Phyllitis scolopendrium*, and there are patches of *Equisetum arvense* by the track. Notable plants include *Chrysosplenium oppositifolium*, *Sanicula europaea* and *Veronica montana*, which were not found elsewhere during the survey.
- The section might be worth further study.
62. 945031 17.7.95  
Near Fylinghall KT  
Station
- Mosaic of dense and more open scrub/small trees and patches of ruderal herbs. *Salix caprea* grows in a row on either side of the track, with occasional *Crataegus monogyna* and *Acer pseudoplatanus*. The more open spaces are dominated by *Urtica dioica*, *Rubus fruticosus* agg. and occasional *Chamaenerion angustifolium*.

63. 944029 17.7.95 A complex area of tracks and overgrown  
Fylinghall Station KT platforms, now mostly dominated by semi-natural  
deciduous woodland, with some open spaces.  
*Fraxinus excelsior* is dominant, with *Quercus  
robur*, *Ulmus glabra*, *Acer pseudoplatanus*,  
*Sorbus anglica*, *Ilex aquifolium* and *Salix  
caprea* in rows alongside the tracks. *Crataegus  
monogyna* is also abundant. The field layer is  
comprised of a mixed flora, including rather  
weak *Rubus fruticosus* agg., *Urtica dioica*,  
*Heracleum sphondylium*, *Geraneum robertianum*,  
*Epilobium montanum*, *Equisetum arvense*,  
*Deschampsia caespitosa*, *Brachypodium  
sylvaticum*, *Bromus ramosus*, *Stellaria holostea*,  
*Vicia sepium* and the ferns *Dryopteris filix-  
mas*, *Dryopteris affinis* morphotype *affinis*,  
*Polystichum setiferum* and *Phyllitis  
scolopendrium*. *Hedera helix* carpets the ground  
in the woodland, and there are patches of tall  
ruderal herbs in the open spaces. Notable  
plants include *Cymbalaria muralis* (on the wall  
of the platform), *Campanula* sp. (*persicifolia*  
??), and *Epipactis helleborine*, of which there  
are two clumps with six and two spikes.
- The woodland continues along the track south of  
the road, but includes scattered specimens of  
*Sorbus aucuparia*, *Prunus avium*, *Acer campestre*  
and *Alnus glutinosa*.
- This section deserves further study.
64. 944026 17.7.95 Deep cutting in which fairly dense scrub of  
Near Fyling Old Hall KT *Crataegus monogyna* is dominant, with frequent  
*Rosa* spp., *Salix caprea*, *Salix* sp. (*x aurita* ?)  
and scattered *Fraxinus excelsior* and *Acer  
campestre*. Open spaces are dominated by *Rubus  
fruticosus* agg., *Urtica dioica* and *Deschampsia  
caespitosa*, with scattered *Dryopteris filix-mas*  
and *Dryopteris affinis* morphotype *affinis*, and  
occasional patches of *Pteridium aquilinum*.

65. 945024 17.7.95 Very high, steep embankment over the stream, on  
Allison Head KT which *Fraxinus excelsior* woodland is dominant,  
Wood other trees and shrubs including *Corylus*  
*avellana*, *Quercus robur*, *Quercus petraea*, *Acer*  
*pseudoplatanus*, *Prunus spinosa* and *Sambucus*  
*nigra*. There is a patch of acidic scrub beside  
the track in which *Ulex europaeus*, *Cytisus*  
*scoparius* and *Corylus avellana* are common, with  
*Teucrium scorodonia* and *Hypochaeris radicata* in  
open spaces. Elsewhere, *Salix cinerea* and  
*Salix caprea* grow alongside the track. There  
are a few open spaces in the woodland (marked  
on the 1:2500 map) which are dominated either  
by *Rubus fruticosus* agg. or *Pteridium*  
*aquilinum*. The field layer is dominated by the  
common woodland ferns, other common plants  
including *Mercurialis perennis*, *Stachys*  
*sylvatica*, *Galium aparine* and *Geranium*  
*robertianum*. Notable species include *Allium*  
*ursinum*, *Campanula latifolia*, *Circaea lutetiana*  
and a large patch of *Equisetum telmateia* at the  
foot of the slope on the west bank.
- The section might be worth further study.
66. 946023 17.7.95 Cutting. First few metres dominated by  
Near Allison KT *Pteridium aquilinum*, with scattered *Acer*  
Head Wood *pseudoplatanus*, *Fraxinus excelsior* and *Corylus*  
*avellana*. The rest of the section is largely  
neutral grassland, with *Arrhenatherum elatius*  
dominant, scattered *Rosa canina*, *Ulex*  
*europaeus*, *Crataegus monogyna* and *Cytisus*  
*scoparius*, and patches of *Rubus fruticosus*  
agg., *Urtica dioica*, *Chamaenerion angustifolium*  
and *Cirsium arvense*. Other abundant plants  
include *Heracleum sphondylium*, *Lathyrus*  
*pratensis*, *Centaurea nigra*, and there is a  
large patch of *Luzula sylvatica* on the west  
bank, and a few *Dactylorhiza fuchsii*.
67. 947023 17.7.95 High steep-sided embankment over stream, with  
Howdale Wood KT woodland, *Fraxinus excelsior* being dominant,  
with *Ulmus procera* (mostly now dead), *Quercus*  
*robur*, *Sorbus aucuparia*, *Alnus glutinosa* and  
*Cytisus scoparius*. The field layer consists  
largely of the common ferns noted in other  
sections, with *Mercurialis perennis*, *Urtica*  
*dioica* and *Galium aparine*. The open areas  
created by the death of the elms have been  
invaded by *Rubus fruticosus* agg., and there is  
a small patch of *Pteridium aquilinum*. One  
plant of *Carex sylvatica* was noted.
- The section might be worth further study.

68. 948022 17.7.95 Cutting, with approximately 50% scrub/small  
Near Howdale 17.7.95 trees, 50% neutral grassland, but with an  
Wood KT interesting mosaic of vegetation and some nice  
forb-rich patches. The scrub/small tree  
species include *Prunus spinosa*, *Crataegus  
monogyna*, *Ulex europaeus*, *Salix caprea*, *Salix  
cinerea*, *Rosa canina*, *Quercus robur* and  
*Fraxinus excelsior*. There are patches of *Rubus  
fruticosus* agg., *Chamaenerion angustifolium*,  
*Cirsium arvense* and *Pteridium aquilinum*. The  
grass mixture contains mainly *Holcus lanatus*,  
*Dactylis glomerata* and *Agrostis capillaris*,  
with patches of *Deschampsia caespitosa*.  
Abundant forbs include *Centaurea nigra*,  
*Heracleum sphondylium* and *Lathyrus pratensis*  
and there are a few *Dactylorhiza fuchsii*, and a  
large patch of *Dryopteris affinis* morphotype  
*affinis*.

The section deserves further study.

69. 950022 17.7.95 High steep-sided embankment over stream, with  
Howdale Wood 17.7.95 woodland, *Fraxinus excelsior* being dominant,  
KT with *Quercus robur*, *Aesculus hippocastanum*,  
*Corylus avellana*, *Betula* sp. and *Crataegus  
monogyna*. The field layer is mainly the common  
woodland ferns noted in other sections, with  
*Urtica dioica* and patches of *Luzula sylvatica*.  
*Hedera helix* carpets the ground and *Lonicera  
periclymenum* climbs up some of the shrubs.

This section also deserves further study.

70. 951023 17.7.95 Long cutting with a mosaic of about 50% scrub  
Near Browside 17.7.95 and small trees, 50% neutral grassland, which  
Farm KT is very forb-rich. Patches of scrub/small  
trees are dominated by *Crataegus monogyna*, with  
*Quercus robur*, *Sorbus aucuparia*, *Acer  
pseudoplatanus*, *Prunus spinosa*, *Ulex europaeus*  
and *Rosa canina*, with patches of *Rubus  
fruticosus*, *Luzula sylvatica* and some acidic  
dwarf shrub heath near the top of the slope,  
containing *Calluna vulgaris*, *Erica cinerea*,  
*Deschampsia flexuosa* and *Vaccinium myrtillus*.  
The grassland is varied in species composition  
(of grasses as well as forbs), with *Holcus  
lanatus*, *Agrostis capillaris* and *Trisetum  
flavescens* being abundant. The forbs include  
hundreds of spikes of *Dactylorhiza fuchsii* and  
scattered *Listera ovata*. Other abundant forbs  
include *Lotus corniculatus*, *Plantago  
lanceolata*, *Ranunculus acris*, *Trifolium repens*,  
*Trifolium pratense*, *Leontodon hispidus*,  
*Centaurea nigra*, *Lathyrus montana* and *Primula  
vulgaris*. Notable plants include *Polypodium  
vulgare*, *Solidago virgaurea*, *Lychnis flos-  
cuculi* and *Agrimonia eupatoria*.

Frog Orchid recorded - summer 1996.



Section 70 ought to be given further study.

71. 953025 17.7.95  
Browside Farm KT  
to Ladysmith Farm
- Coarse acidic scrub, consisting of a mosaic of *Ulex europaeus* and *Rubus fruticosus*. There is a row of *Prunus spinosa* by Browside Farm, and a row of *Acer pseudoplatanus* on the north side of the embankment, and two small *Fraxinus excelsior*. *Hypochaeris radicata*, *Lathyrus pratensis* and *Centaurea nigra* are abundant.
72. 955025 17.7.95  
By Ewe Field KT  
House
- Section dominated by *Rubus fruticosus* agg., with a few scattered *Cytisus scoparius*, *Crataegus monogyna*, *Fraxinus excelsior*, *Acer pseudoplatanus*, *Betula verrucosa* *Ilex aquifolium* and a small patch of *Pteridium aquilinum*. There are small patches of neutral grassland in which *Holcus lanatus*, *Agrostis capillaris*, *Deschampsia flexuosa*, *Centaurea nigra*, *Trifolium repens* and others are abundant.
73. 957025 17.7.95  
Brow Alum KT  
Quarry
- Dominated by *Ulex europaeus*, with scattered *Crataegus monogyna*, *Cytisus scoparius* and patches of *Rubus fruticosus* agg. In the disused sidings there is a mosaic of patches of *Deschampsia caespitosa*, *Rubus fruticosus* agg., *Prunus spinosa*, *Salix cinerea*, *Acer pseudoplatanus* and *Ulex europaeus*. Also in the sidings *Dryopteris dilatata*, *Dryopteris filix-mas*, *Athyrium filix-foemina* and *Cirsium palustre* are abundant. Beside the track *Hypochaeris radicata*, *Centaurea nigra* and *Campanula rotundifolia* are abundant.
74. 958025 17.7.95  
Brow Alum KT  
Quarry
- Dominated by *Pteridium aquilinum*, with *Salix cinerea* in the hollow south of the track. North of the track is a thin strip of *Cytisus scoparius*/*Rubus fruticosus* agg./*Ulex europaeus* mosaic, with *Pteridium* between this strip and the fence. There are a few small scattered *Acer pseudoplatanus* and a small patch of *Chamaenerion angustifolium*.

75. 959025 17.7.95 Dominated by *Ulex europaeus*, with scattered  
Brow Alum 17.7.95 *Cytisus scoparius* and patches of *Chamaenerion*  
Quarry KT *angustifolium* and *Rubus fruticosus* agg., and  
one *Rosa canina*. There is a slope of steep  
loose shale near to the bridge which is  
difficult of access due to the *Ulex*, but  
appears from a distance to be dominated by  
*Deschampsia flexuosa*. Other plants noted in  
this section include *Digitalis purpurea*,  
*Senecio sylvatica* and *Scrophularia nodosa* (the  
last named in the ditch near to the bridge).
- A painted lady butterfly was seen.
76. 961024 13.7.95 Steep unstable bank of burned shale, with about  
Stoupe Brow 13.7.95 50% bare ground. In the vegetated areas  
KT *Deschampsia flexuosa* is dominant, with *Erica*  
*cinerea* and *Teucrium scorodonia* being abundant  
with scattered *Ulex europaeus*, *Polygala*  
*serpyllifolia* and very stunted *Hypochoeris*  
*radicata*.
77. 962024 13.7.95 Continuous *Pteridium aquilinum* with a few  
Stoupe brow 13.7.95 scattered bushes and trees, including *Crataegus*  
KT *monogyna*, *Sorbus aucuparia* and *Acer*  
*pseudoplatanus*. In the hollow south of the  
track is a single *Aesculus hippocastaneum* and a  
*Salix* sp. with long narrow leaves (time  
insufficient for a closer investigation).  
Towards the top of the slope, below the road,  
there are patches of dry acidic dwarf shrub  
heath, which becomes co-dominant with *Pteridium*  
between the road and the top of the slope.
78. 962024 13.7.95 Continuous *Ulex europaeus* with very occasional  
Near Stoupe 13.7.95 *Salix caprea*, *Acer pseudoplatanus*, *Cytisus*  
Brow KT *scoparius* and *Crataegus monogyna*. Occasional  
patches of *Rubus fruticosus* agg. by the bridge  
and alongside the track, and *Chamaenerion*  
*angustifolium* by the bridge. Plants of note  
include *Senecio sylvatica*, which grows beside  
the track, and *Sonchus arvensis* and *Chenopodium*  
*album* beside the road on the bridge.
79. 964023 13.7.95 Very mixed mosaic of vegetation including  
Near Stoupe 13.7.95 patches of *Salix caprea*, *Erica cinerea*, *Ulex*  
Brow KT *europaeus*, *Cytisus scoparius* and *Pteridium*  
*aquilinum*, with smaller patches of *Rubus*  
*fruticosus* agg. and *Chamaenerion angustifolium*.  
*Rosa canina* is common. Plants of note include  
*Rosa sherardii*, *Sorbus anglica* and *Malus* sp. (1  
of each).

80. 966022 13.7.95 Dominated by a mosaic of *Ulex europaeus* and  
Susanna Hill KT *Rubus fruticosus*, with frequent *Cytisus scoparius*, *Sorbus aucuparia*, *Chamaenerion angustifolium* and *Rosa canina*. A few scattered *Acer pseudoplatanus* and *Digitalis purpurea*. Plants of note include *Rosa sherardii* and one bush which resembles *Rosa sherardii* in most characteristics but has white flowers. At the eastern end of the section continuous bracken grows on the north-east side of the track, as a continuation of section 81.
81. 966020 13.7.95 Continuous *Pteridium aquilinum* with scattered  
Near Stoupe KT scrub of *Sambucus nigra*, *Rosa canina*, *Sorbus aucuparia* and fairly frequent *Crataegus monogyna*.
82. 967020 13.7.95 Mosaic of *Pteridium aquilinum* and scrub/small  
Near Stoupe KT trees, with about 50% of each, with *Sorbus aucuparia* being abundant, and scattered *Sambucus nigra*, *Crataegus monogyna*, *Ulex europaeus* and *Salix cinerea*, with patches of *Chamaenerion angustifolium* and *Rubus fruticosus* agg. There is one tree of a non-native *Quercus* sp.
83. 969018 13.7.95 Steep bank of loose shale, with about 50% bare  
Peak Alum KT ground; the vegetation dominated by *Erica cinerea* with some *Calluna vulgaris* and *Teucrium scorodonia* and scattered *Ulex europaeus*. *Blechnum spicant* and *Athyrium filix-foemina* occur in some abundance in the ditch beside the track.
84. 970017 13.7.95 Dense scrub dominated by *Ulex europaeus* with  
Peak Alum KT frequent *Cytisus scoparius*, patches of *Rubus fruticosus* agg., *Calluna vulgaris* with *Erica cinerea*, and occasional *Salix cinerea*. *Teucrium scorodonia* is abundant.
85. 971016 13.7.95 Dense scrub/small trees dominated by *Salix*  
Peak Alum KT *cinerea* with frequent *Cytisus scoparius*, *Sorbus aucuparia* and *Pteridium aquilinum*, which is mainly growing as a field layer underneath the *Salix*, along with other ferns, including *Dryopteris dilatata*, *Dryopteris affinis* morphotype *affinis* and *Athyrium filix-foemina*. *Quercus* sp. and *Acer pseudoplatanus* occur as scattered specimens.

86. 972016 13.7.95 Open scrub/small trees dominated by *Betula verrucosa* and *Salix cinerea*, with patches of dry acidic dwarf shrub heath, *Pteridium aquilinum* and bare ground. The area includes the ruins of the kilns, in the vicinity of which are found *Euphrasia nemorosa*, *Veronica arvensis*, *Veronica officinalis* and *Thelypteris oreopteris*, none of which have been found elsewhere on the survey.
- Peak Alum  
Quarries  
KT
87. 974015 13.7.95 In the quarry bottom and beside the quarry track. Dense scrub/small trees dominated by *Salix cinerea* with *Betula pubescens* and *Sorbus aucuparia*. The field layer consists largely of *Urtica dioica*, *Teucrium scorodonia*, with weak *Rubus fruticosus* agg., and ferns, including *Dryopteris dilatata*, *Athyrium filix-foemina* and some fine specimens of *Dryopteris affinis* morphotype *affinis*. Notable plants found include *Luzula pilosa*, *Cerastium glomeratum*, *Sagina procumbens* and *Typha latifolia*.
- Peak Alum  
Quarries  
KT
88. 974015 13.7.95 Complex mosaic of dry dwarf shrub heath, scrub and *Pteridium aquilinum*, the heath dominated by *Calluna vulgaris* with *Erica cinerea*, and *Deschampsia flexuosa*; the scrub dominated by young *Betula pubescens* with *Cytisus scoparius*, *Salix cinerea* and *Ulex europaeus*.
- Peak Alum  
Quarries  
KT
89. 975015 13.7.95 Tall scrub/woodland, dominated by *Salix cinerea* and *Sorbus aucuparia* with *Acer pseudoplatanus*. Field layer dominated by *Dryopteris dilatata*. *Silene dioica* is abundant. Plants of note include *Milium effusum*.
- Peak Alum  
Quarries  
KT
90. 976014 13.7.95 Mosaic of dry acidic shrub heath with patches of *Pteridium aquilinum*, *Salix cinerea* and *Sorbus aucuparia*. There are a few plants of *Blechnum spicant* beside the track.
- Peak Alum  
Quarries  
KT
91. 977014 13.7.95 Semi-natural broad-leaved woodland, with *Quercus robur* dominant, and scattered *Salix cinerea*, *Salix aurita* (hybrid?), *Sorbus aucuparia*, *Betula pubescens* and *Corylus avellana*. *Dryopteris dilatata* is dominant in the field layer, and *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis*, *Athyrium filix-foemina*, *Teucrium scorodonia*, *Holcus mollis* and *Oxalis acetosella* are abundant. *Luzula multiflora* was also found.
- Peak Alum  
Quarries  
KT

92. 977014 13.7.95 Continuous *Pteridium aquilinum* with scattered  
Peak Alum scrub and small trees, including *Cytisus*  
Quarries KT *scoparius*, *Sorbus aucuparia*, *Betula pubescens*,  
*Rosa canina*, *Ulex europaeus*, and occasional  
*Acer pseudoplatanus*. Also a small patch of  
*Calluna vulgaris*. A notable find was *Corydalis*  
*claviculata* which is growing under *Pteridium*  
beside the track.

The whole of Peak Alum Quarry, which includes sections 80 to 92, ought to be given further study.

93. 978015 13.7.95 Dense scrub dominated by *Salix* spp. with *Prunus*  
Near Ravenscar KT *spinosa*, *Cytisus scoparius*, *Crataegus monogyna*,  
*Ulex europaeus*, *Rosa canina* and *Sorbus*  
*aucuparia*, with patches of *Calluna vulgaris*  
with *Erica cinerea*, also patches of *Pteridium*  
*aquilinum*, *Rubus fruticosus* agg., *Urtica*  
*dioica*, *Arrhenatherum elatius* and *Chamaenerion*  
*angustifolium*. Notable species found include  
*Solidago virgaurea*, *Galeopsis tetrahit* and  
*Pernettya mucronata* (one bush).
94. 979015 13.7.95 First part of the cutting before the tunnel.  
Near Ravenscar KT Scattered scrub with trees and patches of dry  
dwarf acidic heath on the steep south bank.  
Scrub and tree species include *Acer*  
*pseudoplatanus*, *Salix caprea*, *Sorbus aucuparia*,  
*Ilex aquifolium*, *Ulex europaeus*, *Cytisus*  
*scoparius* and *Rubus fruticosus* agg. *Athyrium*  
*filix-foemina* and *Dryopteris dilatata* are  
abundant in shady places whilst *Chamaenerion*  
*angustifolium* dominates the disused track.
95. 979015 13.7.95 Deep cutting before the tunnel. The north bank  
Near Ravenscar KT is dominated by *Ulex europaeus* and *Rubus*  
*fruticosus* agg., with scattered *Cytisus*  
*scoparius* and one each of *Sorbus aucuparia* and  
*Crataegus monogyna*. The south bank is  
dominated by dry acidic dwarf shrub heath,  
mainly *Calluna vulgaris* with *Erica cinerea*,  
*Deschampsia flexuosa*, *Galium saxatile* and  
scattered *Ulex europaeus*. The track has been  
colonised by *Chamaenerion angustifolium*, whilst  
*Athyrium filix-foemina* and *Dryopteris dilatata*  
are abundant beside the track. *Anthoxanthum*  
*odoratum* occurs in a few areas.

96. 983014                      11.7.95  
Ravenscar                      KT                      Cutting at the east end of the tunnel. The first part, just beyond the station house, has been colonised by *Calluna vulgaris* with *Erica cinerea* and *Lotus corniculatus*. This rapidly gives way to *Ulex europaeus* and *Cytisus scoparius*, then *Salix* spp. as the cutting becomes deeper. The sides of the cutting are dominated by dry acidic dwarf shrub heath, with *Calluna vulgaris* and *Deschampsia flexuosa*, and scattered *Ulex europaeus*. The cutting is rich in ferns, both in the heath and under the scrub, the species including *Athyrium filix-foemina*, *Dryopteris dilatata*, *Dryopteris filix-mas* and *Dryopteris affinis* morphotype *affinis*. In deep shade under scrub *Urtica dioica*, *Heracleum sphondylium*, *Luzula sylvatica* and *Chamaenerion angustifolium* are abundant.
97. 984013                      11.7.95  
Ravenscar                      KT                      Disused station and platforms, colonised by dense scrub, with *Salix* spp. dominant, and patches in which *Arrhenatherum elatius* with *Dactylis glomerata*, also *Rubus fruticosus* agg., and *Urtica dioica* are locally dominant. *Agrostis capillaris* is dominant in the more compacted areas of the track. *Heracleum sphondylium* is abundant, and there are two bushes of *Rosa villosa* as well as *Rosa canina*, and a patch of *Cerastium tomentosum* on the platform.
98. 986012                      11.7.95  
Near Ravenscar                KT                      Neutral grassland, with *Arrhenatherum elatius* dominant, and patches of *Chamaenerion angustifolium*, *Rubus fruticosus* agg., and *Urtica dioica*. There are scattered individuals of *Salix cinerea*, *Salix caprea*, *Sorbus aucuparia*, *Cytisus scoparius*, *Prunus* sp. (cultivated cherry?) and *Betula pubescens*. Other abundant plants include *Heracleum sphondylium*, *Dactylis glomerata* and *Holcus lanatus*.

99. 986011 11.7.95  
Near Bent Rigg KT  
Farm
- On the south side of the track the vegetation is a complex mosaic, with *Arrhenatherum elatius* being dominant over much of the area, but with frequent patches of *Chamaenerion angustifolium* and *Rubus fruticosus* agg. There are scattered specimens of *Salix x aurita*, *Salix caprea*, *Sorbus aucuparia*, *Cytisus scoparius* and *Sambucus nigra*. On the north side of the track is a narrow strip of more-or-less acidic grassland, with *Agrostis capillaris* and *Festuca rubra* dominant, and abundant *Arrhenatherum elatius*, *Teucrium scorodonia*, *Lathyrus pratensis* and *Plantago lanceolata*. *Heracleum sphondylium* is abundant on both sides of the track.
100. 987010 11.7.95  
Near Bent Rigg KT  
Farm
- Dense *Ulex europaeus* with *Arrhenatherum elatius* locally dominant in the more open areas and patches of *Chamaenerion angustifolium*, *Rubus fruticosus* agg., and *Urtica dioica*. There are a few scattered *Crataegus monogyna*, *Sorbus aucuparia* and *Malus* sp. The grassland patches are forb-rich, including *Hypochaeris radicata*, *Lotus corniculatus*, *Vicia cracca*, *Trifolium pratense* and others. On the east side of the track the grassland appears to be more acidic, with *Teucrium scorodonia*, *Deschampsia flexuosa*, *Agrostis capillaris* and occasional *Campanula rotundifolia* and *Erica cinerea*.
- The section might be worth further study.
101. 988009 10.7.95  
Near Bent Rigg KT  
Farm
- Neutral grassland, with *Arrhenatherum elatius* dominant, but with scattered scrub and small trees on the eastern side of the track. *Cytisus scoparius* is frequent; other species including *Salix caprea*, *Sorbus aucuparia* and patches of rather weak *Rubus fruticosus* agg. and *Cirsium arvense*. Other abundant plants include *Teucrium scorodonia*, *Hypochaeris radicata*, *Trifolium pratense*, *Holcus lanatus*, *Heracleum sphondylium*, *Lathyrus pratensis* and *Lotus corniculatus*. The grassland on the eastern side of the track appears to be more acidic, containing *Calluna vulgaris*, *Erica cinerea*, *Deschampsia flexuosa*, *Campanula rotundifolia*, *Vaccinium myrtillus*, *Galium saxatile* and *Agrostis capillaris*.

102. 989007                      10.7.95  
Near Bent Rigg      KT  
Lane
- On the eastern side of the track the vegetation is dominated by a mosaic of *Ulex europaeus* and *Rubus fruticosus* agg., with scattered *Salix* sp. (*aurita* hybrid?) *Sorbus aucuparia* and patches of *Cytisus scoparius*. On the western side there is a complex mosaic of vegetation, with *Arrhenatherum elatius* being most abundant, but with extensive *Chamaenerion angustifolium*. Other abundant plants include *Agrostis capillaris* and *Ulex europaeus*, with occasional *Erica cinerea* and *Teucrium scorodonia*.
- Red admiral butterfly seen.
103. 989006                      10.7.95  
Near Bent Rigg      KT  
Lane
- Neutral grassland/tall ruderal herb mosaic, with *Arrhenatherum elatius*, *Chamaenerion angustifolium* and *Rubus fruticosus* agg., occurring in equal abundance, with scattered individuals of *Salix caprea* and *Ulex europaeus*. Other abundant plants include *Vicia cracca*, *Plantago lanceolata*, *Agrostis capillaris* and *Dactylis glomerata*.
104. 990005                      10.7.95  
Near Bent Rigg      KT  
Lane
- The eastern side of the track is dominated by *Ulex europaeus*, whilst the western side is dominated by *Pteridium aquilinum*, and on both sides there are a few scattered *Sorbus aucuparia*, *Cytisus scoparius*, *Rosa canina*, *Malus* sp., *Corylus avellana*, *Crataegus monogyna* and *Salix caprea*. *Ulex europaeus* also occurs as scattered individuals on the western side. In some areas the *Pteridium* is mixed with *Chamaenerion angustifolium*, whilst the *Ulex* is sometimes mixed with *Pteridium*. There are also patches of *Rubus fruticosus* agg.
- There is a badger set near to the northern end of the section.
105. 990003                      10.7.95  
Bent Rigg Lane      KT
- Heathy scrub, with *Cytisus scoparius* and *Ulex europaeus* dominant, with patches of *Rubus fruticosus* and *Chamaenerion angustifolium* and scattered *Sorbus aucuparia*, *Crataegus monogyna*, *Rosa canina* and *Betula verrucosa*. *Rosa sherardii* and *Lonicera periclymenum* are growing on the bridge and *Juncus effusus* and *Dryopteris dilatata* are in the ditch on the southern side of the bridge.



106. 991001 10.7.95  
Near Bent Rigg KT  
Lane
- The area consists of a mosaic of moderately dense scrub/small trees and neutral grassland, with a few more acidic patches and some forb-rich patches. The scrub/small tree patches are dominated by *Salix caprea* and *Salix* sp. (*aurita* hybrid?), with scattered *Cytisus scoparius*, *Rosa canina*, *Crataegus monogyna* and *Betula pubescens*. The grassland is mostly dominated by *Arrhenatherum elatius* on the western side, but by *Deschampsia flexuosa* and *Agrostis capillaris* on the eastern side. There are also patches of *Chamaenerion angustifolium*, *Urtica dioica* and *Rubus fruticosus* agg. *Agrostis capillaris* is dominant alongside the track. *Deschampsia caespitosa* and *Heracleum sphondylium* are abundant, as is *Athyrium filix-foemina* in the ditch. *Dryopteris affinis* and *Dryopteris filix-mas* also occur in the ditch, *Calluna vulgaris* and *Erica cinerea* in the acidic patches, and the forbs include *Dactylorhiza fuchsii* and *Succisa pratensis*.
- The ?large skipper and meadow brown butterflies were seen in this section.
- The section might be worth further study.
107. 991999 10.7.95  
Near Bent Rigg KT  
Lane
- The eastern side of the track is dominated by *Salix caprea*, whilst the western side is dominated by *Arrhenatherum elatius* mixed with *Equisetum arvense*. On both sides of the track there are patches in which *Arrhenatherum* grows either as a dominant stand or co-dominant with *Urtica dioica* and *Rubus fruticosus* agg., and there are a few patches of *Chamaenerion angustifolium*. *Centaurea nigra*, *Heracleum sphondylium*, *Galium aparine* and *Holcus lanatus* are abundant.
108. 991998 10.7.95  
Near Grange Farm KT
- Dense short scrub, with *Salix caprea* and *Salix cinerea* dominant. There are a few open spaces and a zone between the *Salix* and the fence in which *Arrhenatherum elatius* is dominant, with a few patches also of *Urtica dioica*, *Cirsium arvense*, *Equisetum arvense* and *Rubus fruticosus* agg., with scattered *Ulex europaeus*.
109. 991997 10.7.95  
Near Grange Farm KT
- The slope on the western side of the track is under *Pteridium aquilinum*, whilst other areas are covered by a co-dominant mixture of *Arrhenatherum elatius*, *Urtica dioica* and *Rubus fruticosus* agg. There are a few scattered specimens of *Salix caprea*. *Heracleum sphondylium* and *Centaurea nigra* are abundant.

110. 991996                      10.7.95  
Near Grange                      KT  
Farm
- Area dominated by mixed trees and scrub species including *Salix caprea*, *Salix cinerea*, *Salix* sp. (*aurita* hybrid?) and *Alnus glutinosa* by the track, *Fraxinus excelsior* (large mature trees) on the bank to the west, and scattered *Sorbus aucuparia*, *Corylus avellana*, and *Prunus spinosa*. In open spaces a co-dominant mixture of *Arrhenatherum elatius*, *Chamaenerion angustifolium*, *Urtica dioica* and *Galium aparine* occurs, whilst in shady areas the field layer is dominated by *Urtica dioica*, and *Silene dioica* is abundant.
111. 991995                      10.7.95  
Near Grange                      KT  
Farm
- On both sides, the track is lined by a single dense row of *Salix caprea*. On the western side there are 2-3 rows of *Pinus sylvestica* running parallel to the *Salix*. There are patches of *Rubus fruticosus* agg., *Chamaenerion angustifolium*, *Cirsium arvense* and *Pteridium aquilinum* in more open spaces, and a few scattered *Betula pubescens* and *Corylus avellana*. Also a few prominent patches of *Deschampsia caespitosa* under the trees, and *Dryopteris filix-mas* by the boundary fence.
112. 991994                      10.7.95  
Near Grange                      KT  
Farm
- Embankment covered with a dense mixture of scrub and tree species, including *Salix caprea*, *Ulex europaeus*, *Cytisus scoparius*, *Sorbus aucuparia*, *Rosa canina*, *Rosa caesia*, *Corylus avellana*, *Crataegus monogyna*, *Sambucus nigra*, *Betula verrucosa*, *Betula pubescens*, *Prunus spinosa* and *Fraxinus excelsior*. In the northern part of the section there are some open spaces in which a co-dominant mixture of *Arrhenatherum elatius*, *Rubus fruticosus* agg., *Urtica dioica* and *Chamaenerion angustifolium* is found, but further south there is little ground flora except ferns and *Mercurialis perennis* beneath the denser stand of trees and scrub. A few plants of *Campanula latifolia* were seen.

113. 990992                      10.7.95  
Near Meeting                      KT  
House Farm
- Very steep embankment which on the eastern side is dominated by *Corylus avellana*, with some *Quercus* sp., *Crataegus monogyna* and *Fraxinus excelsior*, and on the western side by *Salix caprea*, *Cytisus scoparius*, *Crataegus monogyna*, *Quercus robur* and *Sambucus nigra*. Alongside the track is a fairly dense mixed stand with *Corylus avellana* dominant, but including *Salix caprea*, *Rosa canina*, *Fraxinus excelsior* and *Crataegus monogyna*. The steep banks are clothed with *Mercurialis perennis* and ferns, including *Dryopteris dilatata*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *robusta* as well as what appears to be its hybrid with *Dryopteris filix-mas*, and *Athyrium filix-foemina*. The more open spaces are dominated by the *Arrhenatherum elatius*, *Chamaenerion angustifolium*, *Urtica dioica*, *Rubus fruticosus* agg. mixture, with *Centaurea nigra* being abundant.
114. 990992                      10.7.95  
Near Meeting                      KT  
House Farm
- An open area with neutral grassland dominated by *Arrhenatherum elatius* and *Holcus lanatus*, surrounded by *Pteridium aquilinum*, and scattered *Cytisus scoparius*, *Rosa canina*, *Corylus avellana*, *Crataegus monogyna*, *Salix caprea*, *Prunus spinosa*, *Fraxinus excelsior* and *Quercus robur*. Abundant in the grassland are *Ranunculus repens*, *Trifolium repens*, *Rumex obtusifolius* and others.
115. 990991                      10.7.95  
Near Meeting                      KT  
House Farm
- A small area of planted *Pinus sylvestris*, with *Mercurialis perennis* and grasses in the field layer.
116. 991991                      10.7.95  
Near Meeting                      KT  
House Farm
- Mosaic of patches of *Pteridium aquilinum* and fairly dense scrub with trees, including some very large *Salix caprea*; also *Salix cinerea*, *Sorbus aucuparia*, *Rosa canina*, *Corylus avellana*, *Crataegus monogyna*, *Acer pseudoplatanus*, *Sambucus nigra*, *Quercus robur*, *Prunus spinosa*, *Betula pubescens*, *Ulex europaeus* and *Pinus sylvestris*. At the southern end of the embankment *Urtica dioica* is dominant in the field layer under the trees, whilst *Heracleum sphondylium* and *Arrhenatherum elatius* are abundant alongside the track. A single plant of *Linaria purpurea* is struggling for survival amongst other herbs.

A badger set was seen within the section.

117. 992989                      10.7.95  
Near Meeting                      KT  
House Farm
- Northern end of the same cutting as section 118. Dominated by fairly dense mixed scrub/small trees, especially on the eastern side, with *Salix caprea* being dominant; other species including *Crataegus monogyna*, *Sambucus nigra* and *Rubus fruticosus* agg. Other species present include *Cirsium arvense*, *Cirsium vulgare*, *Cirsium palustre*, *Urtica dioica*, *Dactylis glomerata* and *Holcus lanatus*. On the western side the herb-rich grassland continues into the section for a short distance before scrub and trees become dominant, with the same species as on the eastern side but also *Rosa caesia* ssp. *glauca*, *Sorbus anglica*, *Fraxinus excelsior*, *Prunus spinosa*, *Corylus avellana*, *Sorbus aucuparia*, and *Quercus robur*. The grassland is species-rich, with *Trisetum flavescens* and *Holcus lanatus* being the commonest grasses, and abundant forbs including *Cirsium arvense*, *Lathyrus pratense* and *Vicia cracca*. Amongst the scrub are patches of *Urtica dioica*, *Chamaenerion angustifolium* and *Pteridium aquilinum*.

Meadow brown butterflies were seen.

118. 993988                      4.7.95  
Near Bees'                      KT  
Nest Farm
- Cutting with forb-rich neutral grassland which consists of a very mixed stand of mainly short grasses, including *Holcus lanatus*, *Festuca rubra*, *Lolium perenne*, *Trisetum flavescens*, *Poa trivialis*, *Briza media*, *Anthoxanthum odoratum*, *Arrhenatherum elatius*, *Deschampsia caespitosa* and *Agrostis stolonifera*. *Trisetum flavescens* may be dominant on the east bank, whilst *Arrhenatherum elatius* is particularly abundant on the west bank. There are also a few widely scattered shrubs, including *Rosa* sp., *Crataegus monogyna*, *Sambucus nigra* and *Cytisus scoparius*. Abundant forbs include *Dactylorhiza fuchsii*, *Trifolium repens*, *Trifolium pratense*, *Ranunculus acris*, *Ranunculus repens*, *Vicia sepium*, *Cirsium arvense*, *Cirsium palustre*, *Primula vulgaris*, *Rhinanthus minor* and *Rumex acetosa*. Less common plants include *Potentilla sterilis*, *Avena pubescens* and, in the ditch beside the track, a small patch of *Juncus articulatus*.

The section ought to be given detailed study.

119. 993986                      4.7.95  
Near Bees'                      KT  
Nest Farm
- Dominated by tall ruderal herbs with scattered scrub. *Rubus fruticosus* agg. and *Urtica dioica* are co-dominant, with *Chamaenerion angustifolium* and a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Heracleum sphondylium* in patches. *Lolium perenne* is dominant in the trampled area beside the track. *Salix caprea* is the main component of the scrub species, with *Cytisus scoparius*, *Prunus spinosa* and *Crataegus monogyna* and there is a patch of *Pteridium aquilinum*.
120. 994984                      4.7.95  
Near Quarry                      KT  
Farm
- Dominated by tall dense *Salix caprea* with scattered trees and scrub species, with a locally dominant patch of *Prunus spinosa* on the embankment. Other shrubs and trees present include *Acer pseudoplatanus*, *Fraxinus excelsior*, *Crataegus monogyna*, *Betula pubescens*, *Corylus avellana*, *Cytisus scoparius* and *Rosa canina*. In deep shade on the embankment the field layer is dominated by ferns (*Dryopteris filix-mas* and *Dryopteris dilatata*) and *Mercurialis perennis*. Near the southern end of the section *Equisetum telmateia* is locally dominant, whilst in more open spaces *Urtica dioica*, *Rubus fruticosus* agg., *Galium aparine*, *Chamaenerion angustifolium* and a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Heracleum sphondylium* are locally dominant in patches. *Anthriscus sylvestris* is abundant, and a few spikes of *Campanula latifolia* were seen.
- The section might be worth further study.
121. 996982                      4.7.95  
Near Staintondale              KT  
Station
- Dominated by tall fairly dense *Salix caprea* with scattered trees and scrub species, including *Prunus spinosa*, *Acer pseudoplatanus*, *Fraxinus excelsior*, *Crataegus monogyna*, *Betula pubescens*, *Sorbus aucuparia*, *Rosa canina* and a few *Sorbus anglica*. *Cytisus scoparius* forms an under-storey layer in places. In more open spaces *Urtica dioica*, *Rubus fruticosus* agg., *Chamaenerion angustifolium* and a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Heracleum sphondylium* are locally dominant in patches. One patch of *Rhinanthus minor* was seen.

122. 999979                      4.7.95  
 Staintondale                      KT  
 Station
- A complex mosaic of vegetation, much of which is strongly influenced by man. On the western side the platform is covered with cultivated species. On the eastern side the boundary is lined with *Fraxinus excelsior*, *Salix caprea*, *Ligustrum vulgare*, *Crataegus monogyna*, *Ilex aquifolium* and one *Sorbus aria*. There is a nice patch of forbs on top of the platform, including *Dactylorhiza fuchsii*, *Centaurea nigra*, *Trifolium pratense*, *Chrysanthemum leucanthemum*, *Lotus corniculatus*, *Hieracium* agg., and *Lathyrus pratensis*. In front of the platform is a patch of *Eupatorium cannabinum*.
123. 999976                      4.7.95  
 Near Staintondale                      KT  
 Station
- Dominated by tall dense *Salix caprea* with few scattered trees and shrubs, including *Acer pseudoplatanus*, *Betula pubescens* and *Salix cinerea*. Two spikes of *Dactylorhiza fuchsii* were noted.
124. 999974                      4.7.95  
 Hayburn Beck                      KT
- Semi-natural deciduous woodland dominated by *Fraxinus excelsior* covering a short but high embankment. Other trees and shrubs present include *Crataegus monogyna*, *Betula pubescens*, *Corylus avellana*, *Quercus robur* and *Salix caprea*. In deep shade on the embankment the field layer is dominated by ferns, especially *Dryopteris affinis* morphotype *affinis*. *Urtica dioica*, *Heracleum sphondylium*, *Anthriscus sylvestris*, *Geranium robertianum* and *Poa trivialis* are abundant.
- The section might be worth further study.
125. 999973                      4.7.95  
 Near Hayburn                      KT  
 Beck
- Dominated by tall dense *Salix caprea* with scattered trees and scrub species, which include *Betula pubescens*, *Sorbus aucuparia*, *Quercus robur*, *Prunus spinosa*, *Crataegus monogyna*, *Sambucus nigra* and *Rosa canina*. In deep shade the field layer includes *Mercurialis perennis*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis*, *Dryopteris dilatata* and *Polystichum setiferum* (the last named species being common in the section). Other common plants include *Urtica dioica*, *Galium aparine* and *Heracleum sphondylium*. In a short open area at the southern end of the section a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Urtica dioica* is locally dominant. There are a few small patches of *Pteridium aquilinum* and a few spikes of *Campanula latifolia*.

126. 002972                      4.7.95  
Near Hayburn                      KT  
Beck
- Semi-natural deciduous woodland, with *Fraxinus excelsior* dominant. Other species include *Fagus sylvatica*, *Acer pseudoplatanus*, *Betula pubescens*, *Sorbus aucuparia*, *Quercus robur*, *Crataegus monogyna*, *Salix caprea*, and *Corylus avellana*. The field layer includes *Luzula sylvatica*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis*, *Dryopteris dilatata*, *Polystichum setiferum*, *Galium odoratum*, *Geranium robertianum*, *Geum urbanum*, *Stellaria holostea* and *Holcus mollis*. *Oxalis acetosella* carpets the ground in places, whilst *Lonicera periclymenum* climbs over shrubs. In more open areas a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Heracleum sphondylium* is locally dominant. There is a single plant of *Epipactis helleborine*.

Section 126 deserves further study.

127. 004972                      4.7.95  
Near Hayburn                      KT  
Beck
- Mosaic of fairly dense mixed trees and *Pteridium aquilinum*. *Betula pubescens* is the commonest tree, other species being *Quercus robur*, *Fraxinus excelsior*, *Acer pseudoplatanus* and *Salix caprea*. The field layer includes *Luzula sylvatica*, *Dryopteris filix-mas*, *Dryopteris affinis* morphotype *affinis*, *Dryopteris dilatata* and *Athyrium filix-foemina*, and *Oxalis acetosella* carpets the ground. Open areas are colonised by patches of *Rubus fruticosus* agg., *Ulex europaeus*, *Chamaenerion angustifolium* and *Rosa* spp. (as well as the patches of *Pteridium*). *Cerastium glomeratum* was found near the gateway at the eastern end of the section.

128. 005971                      4.7.95  
Near Hayburn                      KT  
Wyke Station
- Semi-natural deciduous woodland in the northern part of the section, merging into tall *Salix caprea* in the southern part. The woodland is dominated by *Fraxinus excelsior* and *Acer pseudoplatanus*, with *Betula pubescens*, *Sorbus aucuparia*, *Quercus robur*, *Prunus spinosa*, *Corylus avellana*, *Salix caprea* and *Salix cinerea*. In the *Salix caprea* area there are scattered *Acer pseudoplatanus*, *Fraxinus excelsior*, *Sambucus nigra* and *Rosa caesia*. In the woodland the field layer is dominated by *Urtica dioica*, other common components being *Dryopteris filix-mas*, *Dryopteris affinis* morphotypes *affinis* and *robusta*, *Dryopteris dilatata*, *Athyrium filix-foemina*, *Silene dioica*, *Heracleum sphondylium*, *Rubus fruticosus* agg., and *Luzula sylvatica*. *Lonicera periclymenum* is also common. Notable plants include a blue-flowered *Knautia* sp., which is obviously a garden escape, growing beside a bridge, *Circaea lutetiana*, and in a small boggy patch, *Equisetum sylvaticum*, *Chrysosplenium oppositifolium*, *Cardamine flexuosa*, *Veronica beccabunga* and *Callitriche* sp.

The section might be worth further study.

129. 008967                      4.7.95  
Hayburn Wyke                      KT  
Station
- Semi-natural deciduous woodland, with tall (8 m) *Salix caprea*, *Acer pseudoplatanus* and *Fraxinus excelsior* dominant. Other species include *Sorbus aucuparia*, *Quercus robur*, *Quercus petraea*, *Betula pubescens*, *Crataegus monogyna*, *Salix cinerea*, *Rosa* spp. and *Corylus avellana*. *Hedera helix* and *Lonicera periclymenum* are abundant. The field layer includes *Heracleum sphondylium*, *Urtica dioica*, *Angelica sylvestris*, *Rubus fruticosus* agg., *Geranium robertianum*, *Galium aparine*, a patch of *Luzula sylvatica* and the ferns *Dryopteris filix-mas*, *Dryopteris affinis* morphotypes *affinis* and *robusta*, *Dryopteris dilatata*, *Polystichum setiferum* and a few *Pteridium aquilinum*. In a more open area near to the road is a patch of *Chamaenerion angustifolium* with *Heracleum sphondylium*. There is a patch of *Aegopodium podagraria* opposite the disused platform, whilst the vegetation on the platform includes *Rosa rugosa* and *Fuchsia* sp. Other notable species include a single bush of *Rhododendron ponticum* (which should perhaps be removed? - it is beside the gate on the southern side of the main road), two plants of *Epipactis helleborine*, also *Milium effusum*, *Equisetum sylvaticum* and *Campanula latifolia*.

The section deserves further study.



130. 010965                      4.7.95  
Near Hayburn                      KT  
Wyke
- The section has a complex mosaic of vegetation, with tall *Salix caprea* lining the track, *Pteridium aquilinum* dominant between the *Salix* and the fence, but with locally dominant patches of *Rubus fruticosus* agg., *Urtica dioica* and *Chamaenerion angustifolium*. There are scattered *Betula verrucosa*, *Betula pubescens*, *Crataegus monogyna*, *Fraxinus excelsior*, *Acer pseudoplatanus*, *Pinus sylvestris*, *Prunus spinosa* and *Rosa sherardii*. *Hedera helix* is abundant on trunks. Other abundant species include *Heracleum sphondylium*, *Silene dioica*, *Geranium robertianum*, *Mercurialis perennis*, *Dactylis glomerata*, *Arrhenatherum elatius*, a patch of *Luzula sylvatica* and the ferns *Dryopteris filix-mas*, *Dryopteris affinis* morphotypes *affinis* and *robusta*, *Dryopteris dilatata*, and *Athyrium filix-foemina*. *Filipendula ulmaria* is found in damp places. There are about a dozen spikes of *Epipactis helleborine*.
131. 014962                      4.7.95  
Near Cloughton                      KT  
Newlands
- Dominated by *Pteridium aquilinum* with scattered trees and shrubs, *Crataegus monogyna* being locally dominant on the sides of the cutting. Other species include *Betula pubescens*, *Sorbus aucuparia*, *Quercus robur*, *Crataegus monogyna*, *Salix caprea*, *Sambucus nigra*, *Fraxinus excelsior* and *Ulex europaeus*, with patches of *Chamaenerion angustifolium*, *Urtica dioica* and *Rubus fruticosus* agg. *Lonicera periclymenum* climbs over shrubs. *Juncus effusus*, *Juncus conglomeratus*, *Cirsium palustre* and other species are found in a small wet flush. Notable species include *Rosa rubiginosa* and *Trifolium medium*.
132. 015960                      4.7.95  
Near Cloughton                      KT  
Newlands
- Mosaic of fairly dense scrub with trees and patches of tall ruderal herbs. On the eastern side of the track *Crataegus monogyna* is dominant, with frequent patches of ruderal herbs (*Rubus fruticosus* agg., *Urtica dioica*, *Chamaenerion angustifolium* and *Heracleum sphondylium*), *Rosa canina* and *Rosa villosa*. On the western side *Salix caprea* is dominant, other species being *Acer pseudoplatanus*, *Sorbus aucuparia*, *Fraxinus excelsior* and *Sambucus nigra*.

133. 015959                      4.7.95  
Newlands Dale                      KT
- Dominated by *Pteridium aquilinum* with scattered very mixed scrub and ruderal herbs mosaic. *Lolium perenne* is dominant in the trampled areas alongside the track. Common trees and shrubs include *Fraxinus excelsior*, *Betula pubescens*, *Betula verrucosa*, *Salix caprea*, *Salix cinerea*, *Salix* sp. ( x *aurita*?), *Crataegus monogyna*, *Prunus spinosa*, *Malus* sp. and *Corylus avellana*. Other species include *Dactylis glomerata*, *Arrhenatherum elatius*, *Centaurea nigra*, *Rubus fruticosus* agg., *Heracleum sphondylium* and *Urtica dioica*.
134. 015956                      4.7.95  
North of Hood Lane                      KT
- The section has a complex mosaic of fairly dense scrub with scattered trees of mixed species composition, and also patches of ruderal herbs and *Pteridium aquilinum*. Trees and shrubs present include *Acer pseudoplatanus*, *Fraxinus excelsior*, *Betula pubescens*, *Betula verrucosa*, *Sorbus aucuparia*, *Sorbus aria*, *Crataegus monogyna*, *Salix caprea*, *Salix cinerea*, *Salix* sp. ( x *aurita*?), *Sambucus nigra*, *Ilex aquifolium*, *Ulex europaeus*, *Rosa caesia* and *Corylus avellana*. *Lonicera periclymenum* climbs over shrubs. In the patches of ruderal herbs a mixture of *Dactylis glomerata*, *Arrhenatherum elatius* and *Heracleum sphondylium* is locally dominant beside the track and in clearings, and there are also patches of *Chamaenerion angustifolium*, *Urtica dioica* and *Rubus fruticosus* agg. *Galium aparine* is abundant. Other abundant species are *Lolium perenne* (in the trampled zone beside the track), *Hypochaeris radicata* and *Equisetum arvense*. There is also a *Rosa* sp. which has long pedicels and long, shaggy hairs on the leaves. Plants of interest include *Carex hirta* and *Poterium sanguisorba*, neither of which were found elsewhere during the survey.
135. 015954                      3.7.95  
South of Hood Lane                      KT
- Mixed mosaic of dense scrub with trees, neutral grassland and tall ruderal herbs. There is also a patch of dry acidic dwarf shrub heath and a small patch of *Pteridium aquilinum* - a very complex area. The areas of shrubs and trees are dominated by *Salix caprea*, *Sorbus aucuparia* and/or *Ulex europaeus*, other species being *Betula pubescens*, *Betula verrucosa*, *Crataegus monogyna*, *Ilex aquifolium*, *Pinus sylvestris* and *Rosa* sp. The grassland is dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Heracleum sphondylium* and *Centaurea nigra* being abundant. *Chamaenerion angustifolium* and *Rubus fruticosus* agg. dominate the ruderal herbs, whilst the heath contains *Calluna vulgaris*, *Ulex europaeus*, *Deschampsia flexuosa* and *Dryopteris dilatata*.

Section 135 deserves further study.

136. 014953                    3.7.95  
Near Cloughton    KT
- Cutting containing a mosaic of moderately dense scattered scrub with trees, neutral grassland and a patch of heath. Of the tree and scrub species *Sorbus anglica* is common, other species being *Acer pseudoplatanus*, *Betula verrucosa*, *Sorbus aucuparia*, *Crataegus monogyna*, *Salix caprea*, *Ilex aquifolium*, *Ulex europaeus*, *Prunus avium* and *Rosa villosa*. The grassland is dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Heracleum sphondylium* being abundant. The heath contains *Calluna vulgaris*, *Deschampsia flexuosa*, *Teucrium scorodonia*, *Vaccinium myrtillus*, *Stellaria holostea*, *Dryopteris filix-mas* and *Dryopteris dilatata*. There are also patches of *Chamaenerion angustifolium* and *Rubus fruticosus* agg. Species of interest include *Solidago virgaurea*, *Knautea arvensis* and *Oreopteris limbosperma*.
- Ringlet butterflies were seen in the section.
- The section deserves further study.
137. 014951                    3.7.95  
Near Cloughton    KT
- Scrub, with *Crataegus monogyna* dominant, with a few patches of neutral grassland which consist of a mixture of *Arrhenatherum elatius*, *Dactylis glomerata* and *Heracleum sphondylium*. Other species present include *Chamaenerion angustifolium*, *Anthriscus sylvestris*, *Hypochaeris radicata*, *Sorbus aucuparia*, *Sorbus anglica*, *Ilex aquifolium*, *Sambucus nigra*, *Malus* sp. and *Rosa* spp., including *R. villosa*.
138. 013949                    3.7.95  
Near Cloughton    KT
- Mosaic of scattered scrub with trees, neutral grassland and ruderal herbs. Shrubs and trees include *Crataegus monogyna*, *Acer pseudoplatanus*, *Betula verrucosa*, *B. pubescens*, *Sorbus aucuparia*, *S. anglica* and *Salix caprea*. The grassland is dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Heracleum sphondylium*, *Centaurea nigra*, *Hypochaeris radicata*, *Vicia cracca*, *Lathyrus pratensis* and *Trifolium pratense* being abundant. There are also patches of *Chamaenerion angustifolium* and *Rubus fruticosus* agg., and *Dryopteris filix-mas* grows under the shade of trees and bushes.

139. 013947                      3.7.95  
Near Cloughton              KT  
Dense scrub/small trees, with *Salix caprea* dominant, and patches of neutral grassland *Urtica dioica* and *Rubus fruticosus* agg. Species present in association with the *Salix* include *Acer pseudoplatanus*, *Betula pubescens*, *Crataegus monogyna*, *Sambucus nigra* and *Rosa* spp. The grassland is dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Heracleum sphondylium* being abundant. Other abundant species include *Anthriscus sylvestris* and *Galium aparine*.
140. 012943                      3.7.95  
Cloughton                      KT  
Mosaic of grassland and moderately dense scrub with trees. The grassland is dominated by a mixture of *Arrhenatherum elatius*, *Dactylis glomerata* and *Heracleum sphondylium*, other species being *Urtica dioica*, *Rubus fruticosus* agg., *Chamaenerion angustifolium*, *Anthriscus sylvestris*, *Equisetum arvense* and *Plantago lanceolata*. Of the scrub and tree species *Crataegus monogyna* is dominant over the northern part of the section, and *Salix cinerea* and *S. caprea* over the southern part, other species present including *Acer pseudoplatanus*, *Fraxinus excelsior*, *Sambucus nigra*, *Malus* sp. and *Rosa caesia*.
141. 011941                      3.7.95  
Cloughton                      KT  
Station  
Disused railway station and sidings. Within the station area is an area of mixed vegetation including *Cytisus scoparius* along the eastern boundary and some spoil heaps on which ephemerals including *Chenopodium album* and *Sisymbrium officinale* are growing. Also present, presumably as a relic of the former station garden, is *Senecio cineraria*. Scattered trees and shrubs within this area include *Salix caprea*, *S. cinerea*, *Acer pseudoplatanus* and *Betula pubescens*. The area of disused sidings south of the station is bordered on the west side by *Pinus sylvestris* and *Acer pseudoplatanus*, and on the east side by *Betula pubescens* with *Salix cinerea* and *Rosa caesia*. The area in between is species-rich grassland with forbs, the areas of taller vegetation being dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with *Rumex obtusifolius*, *Heracleum sphondylium*, *Chamaenerion angustifolium* and *Plantago lanceolata*, whilst the shorter vegetation is dominated by *Festuca rubra* and *Lolium perenne*, with *Centaurea nigra*, *Crepis capillaris*, *Hypochaeris radicata*, *Trifolium dubium*, *T. pratense*, *T. repens* and *Hieracium* agg. There is also a patch of *Symphytum officinale*.

The section deserves further study.

142. 011938 3.7.95  
Near Cloughton KT Neutral grassland dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with scattered scrub/small trees and patches of *Urtica dioica*, *Chamaenerion angustifolium* and *Rubus fruticosus* agg. Scrub and tree species present include *Salix* sp. (*cinerearia* x *aurita*?), *Acer pseudoplatanus*, *Betula pubescens* and *Alnus glutinosa*. Other abundant species include *Heracleum sphondylium*, *Centaurea nigra* and *Galium aparine*. There is an area of planted conifers (*Pinus sylvestris* and *Larix decidua*) just south of the station.
143. 013934 3.7.95  
Near Burniston KT Fairly dense scrub/small trees, with *Crataegus monogyna* dominant, with open spaces beside the track dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with locally dominant patches of *Urtica dioica*, *Chamaenerion angustifolium*, *Rubus fruticosus* agg., *Equisetum arvense* and *Cirsium arvense*. Other tree and scrub species present include *Acer pseudoplatanus*, *Betula pubescens*, *B. verrucosa*, *Sorbus aucuparia*, *Quercus robur*, *Salix caprea*, *S. cinerea*, *Sambucus nigra* and *Rosa* spp. Other abundant species include *Heracleum sphondylium* and *Galium aparine*.
144. 015932 3.7.95  
Near Burniston KT Neutral grassland dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with scattered scrub and patches of *Urtica dioica*, *Chamaenerion angustifolium* and *Rubus fruticosus* agg. *Lolium perenne* is locally dominant in the trampled zone beside the track. Scrub species present include *Salix caprea*, *Sambucus nigra* and *Rosa canina*. Other abundant species include *Holcus lanatus*, *Heracleum sphondylium*, *Anthriscus sylvestris*, *Centaurea nigra*, *Lathyrus pratensis* and *Equisetum arvense*.
145. 015931 3.7.95  
Burniston KT Neutral grassland dominated by *Arrhenatherum elatius* and *Dactylis glomerata*, with scattered scrub and patches of *Urtica dioica*, *Chamaenerion angustifolium* and *Rubus fruticosus* agg. Scrub species present include *Crataegus monogyna*, *Sambucus nigra* and a few *Rosa* sp. Other abundant species include *Heracleum sphondylium*, *Centaurea nigra* and *Equisetum arvense*. There is a single *Pinus sylvestris*.

146. 016929                      3.7.95  
Burniston                      KT                      Fairly dense scrub/small trees, with *Crataegus monogyna* dominant, with patches of tall ruderal herbs (*Urtica dioica*, *Chamaenerion angustifolium* and *Rubus fruticosus* agg.). Tree and scrub species present include *Acer pseudoplatanus*, *Fraxinus excelsior*, *Betula verrucosa*, *Salix caprea*, *Sambucus nigra*, *Prunus spinosa* and *Rosa* spp. Other abundant species include *Arrhenatherum elatius*, *Dactylis glomerata*, *Heracleum sphondylium* and *Galium aparine*. There is a single bush of *Ligustrum vulgare*.
147. 016926                      3.7.95  
Burniston                      KT                      Mosaic of scattered scrub and neutral grassland, the scrub dominated by *Crataegus monogyna* and *Rosa canina*, and the grassland dominated by *Arrhenatherum elatius* and *Dactylis glomerata* with *Heracleum sphondylium*, *Urtica dioica*, *Rumex obtusifolius* and *Cirsium repens*. There is one bush of *Rosa rubiginosa*.
148. 016925                      3.7.95  
Burniston                      KT                      The eastern side of the track is dominated by dense *Crataegus monogyna* scrub, with scattered other scrub and small trees, including *Sambucus nigra*, *Acer pseudoplatanus* and *Fraxinus excelsior*. The western side is dominated by *Rubus fruticosus* agg., with grasses and ruderal herbs being abundant, including *Arrhenatherum elatius*, *Dactylis glomerata*, *Heracleum sphondylium* and *Urtica dioica*. There is one patch of *Rubus idaeus*, and one *Malus* sp. Notable plants include *Rumex sanguineus* and *Tanacetum vulgare*.
149. 017924                      3.7.95  
Near Burniston                KT                      Dense scrub, with *Crataegus monogyna* dominant and a few scattered *Sambucus nigra*, *Sorbus aucuparia*, *Salix caprea* and *Rosa canina*. In the more open area beside the track *Arrhenatherum elatius*, *Dactylis glomerata*, *Heracleum sphondylium* and *Centaurea nigra* are abundant.
150. 017922                      3.7.95  
Near Burniston                KT                      Mosaic of scattered scrub/small trees, neutral grassland and tall ruderal herbs, the scrub dominated by *Crataegus monogyna* and *Salix caprea*, with *Sambucus nigra*, *Betula verrucosa*, *Fraxinus excelsior* and *Rosa canina*; the grassland and ruderal herbs including *Arrhenatherum elatius*, *Dactylis glomerata*, *Rubus fruticosus* agg., *Heracleum sphondylium*, *Urtica dioica*, *Anthriscus sylvestris* and *Centaurea nigra*.

151. 017920                    3.7.95  
Near Burniston            KT            On the eastern side of the track neutral grassland of *Arrhenatherum elatius*, *Dactylis glomerata* and *Heracleum sphondylium* is dominant, with other abundant species being *Holcus lanatus*, *Centaurea nigra* and *Anthriscus sylvestris*. On the western side is dense scrub dominated by *Salix caprea*, with *Crataegus monogyna* and *Malus* sp.
152. 017919                    3.7.95  
Near Burniston            KT            On the eastern side of the track neutral grassland of mixed composition of short species including *Lolium perenne*, *Cynosurus cristatus* and *Holcus lanatus*. On the western side there is scrub with scattered trees and tall ruderal herbs, the species including *Salix caprea*, *Fraxinus excelsior*, *Urtica dioica*, *Rubus fruticosus* agg., *Chamaenerion angustifolium*, *Heracleum sphondylium*, *Arrhenatherum elatius* and *Holcus lanatus*.
153. 017918                    3.7.95  
Between Burniston        KT  
and Scalby    A mixture of neutral grassland and tall ruderal herbs, with *Arrhenatherum elatius*, *Dactylis glomerata*, *Rubus fruticosus* agg., *Chamaenerion angustifolium* and/or *Urtica dioica* either mixed with the grasses or in locally dominant patches; overall dominance with the ruderal herbs. There are patches in which *Equisetum arvense* is a co-dominant component of the mixture, and a few scattered bushes of *Rosa canina* and *Rosa caesia*.
154. 017915                    3.7.95  
Between Burniston        KT  
and Scalby    Mosaic of neutral grassland mixed with tall ruderal herbs and scattered scrub, in a 50:50 mixture. The grassland/ruderal herb mixture is comprised of *Arrhenatherum elatius*, *Dactylis glomerata*, *Rubus fruticosus* agg., *Chamaenerion angustifolium* and *Urtica dioica*, with *Heracleum sphondylium* and *Centaurea nigra* being abundant. The scrub patches are dominated by *Crataegus monogyna* with a few scattered *Salix caprea* and *Rosa canina*. *Lolium perenne* is dominant in the trampled zone alongside the path.
155. 018912                    3.7.95  
Near Scalby                                        KT            A mixture of neutral grassland and tall ruderal herbs, with *Arrhenatherum elatius*, *Dactylis glomerata*, *Rubus fruticosus* agg., *Chamaenerion angustifolium* and/or *Urtica dioica* either mixed with the grasses or in locally dominant patches; overall dominance with the ruderal herbs.

156. 018911  
Scalby

3.7.95  
KT

Mosaic of neutral grassland mixed with tall ruderal herbs and scattered scrub, in a 50:50 mixture. The grassland/ruderal herb mixture is comprised of *Arrhenatherum elatius*, *Dactylis glomerata*, *Rubus fruticosus* agg., *Chamaenerion angustifolium* and *Urtica dioica*, with *Heracleum sphondylium* and *Centaurea nigra* being abundant. The scrub patches are dominated by *Crataegus monogyna* with a few scattered *Salix caprea* and *Rosa canina* with one each of *Prunus avium* and *Malus* sp. *Lolium perenne* is dominant in the trampled zone alongside the path, and a few plants of *Lolium multiflorum* were growing in front of a gate to a field.



BOTANICAL SURVEY OF THE DISUSED RAILWAY LINE  
BETWEEN WHITBY AND SCALBY

SECTIONS WORTH FURTHER STUDY

Section number	Grid ref.	Locality	Habitat type and special characteristics
1.	898092	From Larpool Lane	<p>Mosaic of neutral grassland and tall ruderal herbs with scattered trees.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
2.	900091	Near Larpool	<p>Dense stand of <i>Salix caprea</i> with scattered <i>Quercus petraea</i>, <i>Acer campestre</i>, <i>Acer pseudoplatanus</i> and <i>Fraxinus excelsior</i>, all about 8 metres tall - woodland rather than scrub.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
3.	901090	Beside Cock Mill Wood	<p>Mosaic of neutral grassland and tall ruderal herbs with scattered scrub of <i>Salix caprea</i> and <i>Crataegus monogyna</i>.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
7.	915085	Stainsacre	<p>Neutral herb-rich grassland, dominated by <i>Arrhenatherum elatius</i>.</p> <p>There is nothing particularly rare in the grassland, except for the garden escape <i>Cerastium tomentosum</i>, but the abundance of common forbs make the section attractive and, being close to habitation, possibly of educational value. A full species list ought to be compiled as an initial step.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
12.	922081	Hawsker Station	<p>Neutral herb-rich grassland, with locally dominant patches of <i>Festuca rubra</i> and, <i>Arrhenatherum elatius</i>. Notable plants include <i>Crepis vesicaria</i>, <i>Chaenorhinum minus</i> and <i>Hieraceum brunneocroceum</i>, and there are several bushes of <i>Rosa rugosa</i> and <i>Ligustrum vulgare</i>.</p> <p>Section 12 ought to be given further study.</p>
16.	933078	Near Hawsker	<p>Neutral herb-rich grassland, with <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> co-dominant over most of the area.</p> <p>The section could be given further study since it is representative of neutral herb-rich grassland.</p>
17.	935078	Hawsker Bottoms	<p>Neutral grassland, with scattered scrub, <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> being co-dominant.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
18.	936078	Hawsker Bottoms	<p>The south side of the cutting has a species composition similar to that of section 17, including <i>Dactylorhiza fuchsii</i>, <i>Rosa canina</i>, <i>Rosa caesia</i> ssp. <i>glauca</i>, <i>Rosa villosa</i>? and <i>Viola</i> sp. The north side of the cutting has a mosaic of fairly dense scrub with patches of base-rich herb-rich grassland, containing <i>Briza media</i> and many attractive forbs.</p> <p>Transect and full species list recorded.</p>
19.	937077	Hawsker Bottoms	<p>Steep-sided embankment, the south side being dominated by dense scrub of <i>Crataegus monogyna</i> with patches of <i>Rubus fruticosus</i>. The north side is dominated by <i>Pteridium aquilinum</i> with a few scattered <i>Fraxinus excelsior</i>, <i>Crataegus monogyna</i> and <i>Rosa</i> spp., including <i>Rosa villosa</i>. <i>Arrhenatherum elatius</i> is abundant and there are some woodland species under the <i>Pteridium</i>, including <i>Hyacinthoides non-scripta</i>, <i>Anemone nemorosa</i> and several fern species. The habitat is therefore somewhat unusual.</p> <p>Transect and full species list recorded.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
20.	939077	Hawsker Bottoms	<p>Neutral grassland, with scattered short scrub, <i>Arrhenatherum elatius</i> and <i>Rubus fruticosus</i> agg. being dominant, with <i>Crataegus monogyna</i> and other scrub species. Notable plants include <i>Trifolium medium</i> and a single bush of <i>Spiraea</i> sp.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
21.	942075	Near Hawsker Bottoms	<p>This section is split longitudinally into three distinct habitats. The embankment on the southern side is a continuation of section 20, consisting of neutral grassland with scattered scrub. To the north of the track the area is bisected by a low embankment which is mostly covered by fairly dense scrub, to the north of which is neutral grassland with scattered scrub. The central strip is a complex habitat with a species composition which suggests a mosaic of acidic and basic conditions, including a number of species not found elsewhere on the survey, some of which are uncommon. The species include <i>Briza media</i>, <i>Agrostis gigantea</i>, <i>Carex flacca</i>, <i>Hypericum pulchrum</i>, <i>Juncus conglomeratus</i>, <i>Leontodon taraxacoides</i>, <i>Linum catharticum</i>, <i>Ononis repens</i>, <i>Dactylorhiza purpurella</i>, <i>Dactylorhiza fuchsii</i>, <i>Listera ovata</i>, <i>Pulicaria dysenterica</i>, <i>Rhinanthus minor</i>, <i>Stellaria graminea</i> and many others.</p> <p>This area is possibly the most interesting section of the entire survey area, and may be worthy of conservation. It ought to be studied more intensively. Full species list recorded.</p>
26.	946072	Near Bottom House	<p>Dry dwarf shrub heath, acidic, with <i>Erica cinerea</i> and <i>Deschampsia flexuosa</i> dominant in patches, with <i>Teucrium scorodonia</i> and <i>Stachys officinalis</i>. In other patches <i>Rubus fruticosus</i> agg. or <i>Chamaenerion angustifolium</i> are dominant. Towards the foot of the slope <i>Dryopteris dilatata</i>, <i>Dryopteris filix-mas</i> and <i>Dryopteris affinis</i> morphotype <i>affinis</i> are common. Towards the eastern end of the cutting <i>Pteridium aquilinum</i> is dominant, mixed with <i>Arrhenatherum elatius</i>, and there are thickets of <i>Ulex europaeus</i>.</p> <p>The section might be worth further study.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
29.	949071	Near Rain Dale	<p>The first part of the cutting has a complex mosaic of vegetation. The south side is mainly by dry acidic dwarf shrub heath dominated by <i>Erica cinerea</i> with occasional <i>Calluna vulgaris</i>, with patches of <i>Deschampsia flexuosa</i>, <i>Vaccinium myrtillus</i>, <i>Rubus fruticosus</i> agg. and <i>Chamaenerion angustifolium</i>. The north side has patches of <i>Ulex europaeus</i> interspersed with disturbed ground on which <i>Aira praecox</i>, <i>Hieracium pilosella</i>, <i>Centaurea nigra</i>, <i>Hypochaeris radicata</i> and <i>Rumex acetosella</i> are abundant.</p> <p>The section might be worth further study.</p>
30.	950071	Near Rain Dale	<p>In the same cutting as section 29, further east. <i>Rubus fruticosus</i> and <i>Ulex europaeus</i> are dominant, with <i>Crataegus monogyna</i>, <i>Salix caprea</i>, <i>Sorbus aucuparia</i> and occasional <i>Ulmus glabra</i> and <i>Malus sylvestris</i>. Also patches of ruderal herbs and neutral grassland.</p> <p>The section might be worth further study.</p>
32.	952069	Rain Dale	<p>Cutting colonised by patches of <i>Pteridium aquilinum</i> and <i>Ulex europaeus</i>, with scattered <i>Crataegus monogyna</i> and <i>Salix caprea</i>, and a few <i>Rosa villosa</i>. At the head of Rain Dale <i>Plantago maritima</i> is growing on the rocky outcrop north of the track, and <i>Solidago virgaurea</i> is nearby.</p> <p>Rain Dale head might be worth further study.</p>
34.	952068	Rain Dale	<p>Deep cutting on southern side of track, colonised by a mosaic of patches of <i>Pteridium aquilinum</i>, <i>Chamaenerion angustifolium</i> and <i>Erica cinerea</i> with <i>Calluna vulgaris</i>, <i>Deschampsia flexuosa</i> and <i>Teucrium scorodonium</i>. Scattered bushes of <i>Ulex europaeus</i>. <i>Solidago virgaurea</i> is relatively common.</p> <p>The section might be worth further study.</p>
35.	953068	Near Rain Dale	<p>Continuation of the same cutting as section 34. On the upper parts of the slope dry acidic dwarf shrub heath is dominant, characterised by <i>Erica cinerea</i> with <i>Calluna vulgaris</i> and <i>Deschampsia flexuosa</i>.</p> <p>The section might be worth further study.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
38.	955065	Near Bay Ness	<p>Deep cutting. On the south-west side of the track dry acidic dwarf shrub heath is dominant, characterised by <i>Calluna vulgaris</i> and <i>Deschampsia flexuosa</i>, with <i>Galium saxatile</i>. <i>Pteridium aquilinum</i> is dominant on the north-east side, and there is a small patch of disturbed ground (due to soil slippage) in which <i>Aira praecox</i>, <i>Hieracium pilosella</i>, <i>Agrostis capillaris</i>, <i>Digitalis purpurea</i> (1 plant) and other species are found.</p> <p>The section might be worth further study.</p>
48.	946051	Robin Hood's Bay	<p>Dominated by tall ruderal herbs, especially <i>Chamaenerion angustifolium</i> and <i>Urtica dioica</i> with <i>Rubus fruticosus</i> agg. <i>Lolium perenne</i> is dominant beside the track.</p> <p>There is nothing particularly striking about this section, except that it is typical of the type of habitat, and a species list and transect were recorded as part of the training programme of the NVQ students.</p>
50.	945049	Fylingthorpe	<p>Semi-natural deciduous woodland, with <i>Fraxinus excelsior</i> dominant, other species including <i>Quercus robur</i>, <i>Acer pseudoplatanus</i>, <i>Crataegus monogyna</i> and a few <i>Ilex aquifolium</i>. The field layer is dominated by ferns with rather weak <i>Rubus fruticosus</i> agg. and <i>Urtica dioica</i>. Plants found rarely on the survey include <i>Bromus ramosus</i> and <i>Festuca gigantea</i>.</p> <p>Transect recorded. The area ought to be given a more detailed survey.</p>
57.	944058	Mill beck	<p>Semi-natural deciduous woodland dominated by <i>Fraxinus excelsior</i> with <i>Acer campestre</i>, <i>Quercus petraea</i>, <i>Ulmus glabra</i>, <i>Corylus avellana</i>, <i>Crataegus monogyna</i> and <i>Prunus spinosa</i>.</p> <p>The section might be worth further study.</p>
61.	945032	Near Butcher Close Wood	<p>Semi-natural deciduous woodland. There is a single row of <i>Salix caprea</i> on the western side of the track, but eastern side is covered by mixed <i>Fraxinus excelsior</i>, <i>Acer pseudoplatanus</i>, <i>Corylus avellana</i>, <i>Quercus robur</i>, <i>Salix caprea</i>, and a large thicket of <i>Prunus spinosa</i>.</p> <p>The section might be worth further study.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
63.	944029	Fylinghall Station	<p>A complex area of tracks and overgrown platforms, now mostly dominated by semi-natural deciduous woodland, with some open spaces. Notable plants include <i>Cymbalaria muralis</i> (on the wall of the platform), <i>Campanula</i> sp. (<i>persicifolia</i> ??), and <i>Epipactis helleborine</i>, of which there are two clumps with six and two spikes. The woodland continues along the track south of the road, but includes scattered specimens of <i>Sorbus aucuparia</i>, <i>Prunus avium</i>, <i>Acer campestre</i> and <i>Alnus glutinosa</i>.</p> <p>This section deserves further study.</p>
65.	945024	Alison Head Wood	<p>Very high, steep embankment over the stream, on which <i>Fraxinus excelsior</i> woodland is dominant. Notable species include <i>Allium ursinum</i>, <i>Campanula latifolia</i>, <i>Circaea lutetiana</i> and a large patch of <i>Equisetum telmateia</i> at the foot of the slope on the west bank.</p> <p>The section might be worth further study.</p>
67.	947023	Howdale Wood	<p>High steep-sided embankment over stream, with woodland, <i>Fraxinus excelsior</i> being dominant, with <i>Ulmus procera</i> (mostly now dead), <i>Quercus robur</i>, <i>Sorbus aucuparia</i>, <i>Alnus glutinosa</i> and <i>Cytisus scoparius</i>. One plant of <i>Carex sylvatica</i> was noted.</p> <p>The section might be worth further study.</p>
68.	948022	Near Howdale Wood	<p>Cutting, with approximately 50% scrub/small trees, 50% neutral grassland, but with an interesting mosaic of vegetation and some nice forb-rich patches.</p> <p>The section deserves further study.</p>
69.	950022	Howdale Wood	<p>High steep-sided embankment over stream, with woodland, <i>Fraxinus excelsior</i> being dominant, with <i>Quercus robur</i>, <i>Aesculus hippocastanum</i>, <i>Corylus avellana</i>, <i>Betula</i> sp. and <i>Crataegus monogyna</i>. The field layer is mainly the common woodland ferns noted in other sections, with <i>Urtica dioica</i> and patches of <i>Luzula sylvatica</i>. <i>Hedera helix</i> carpets the ground and <i>Lonicera periclymenum</i> climbs up some of the shrubs.</p> <p>This section also deserves further study.</p>

Section number	Grid ref.	Locality	Habitat type and special characteristics
70.	951023	Near Browside Farm	Long cutting with a mosaic of about 50% scrub and small trees, 50% neutral grassland, which is very forb-rich. Patches of scrub/small trees are dominated by <i>Crataegus monogyna</i> , with <i>Quercus robur</i> , <i>Sorbus aucuparia</i> , <i>Acer pseudoplatanus</i> , <i>Prunus spinosa</i> , <i>Ulex europaeus</i> and <i>Rosa canina</i> , with patches of <i>Rubus fruticosus</i> , <i>Luzula sylvatica</i> and some acidic dwarf shrub heath near the top of the slope, containing <i>Calluna vulgaris</i> , <i>Erica cinerea</i> , <i>Deschampsia flexuosa</i> and <i>Vaccinium myrtillus</i> . The grassland is varied in species composition (of grasses as well as forbs), with <i>Holcus lanatus</i> , <i>Agrostis capillaris</i> and <i>Trisetum flavescens</i> being abundant. The forbs include hundreds of spikes of <i>Dactylorhiza fuchsii</i> and scattered <i>Listera ovata</i> . Other abundant forbs include <i>Lotus corniculatus</i> , <i>Plantago lanceolata</i> , <i>Ranunculus acris</i> , <i>Trifolium repens</i> , <i>Trifolium pratense</i> , <i>Leontodon hispidus</i> , <i>Centaurea nigra</i> , <i>Lathyrus montana</i> and <i>Primula vulgaris</i> . Notable plants include <i>Polypodium vulgare</i> , <i>Solidago virgaurea</i> , <i>Lychnis flos-cuculi</i> and <i>Agrimonia eupatoria</i> . Although it was not seen during the survey, <i>Coeloglossum viride</i> has been seen in this section.

Section 70 ought to be given further study.

80 - 92	-	Peak Alum Quarries	Mosaic of various types of scrub and acidic vegetation. The area contains many species not found elsewhere during the survey.
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The whole of Peak Alum Quarry, which includes sections 80 to 92, ought to be given further study.

100.	987010	Near Bent Rigg Farm	Dense <i>Ulex europaeus</i> with <i>Arrhenatherum elatius</i> locally dominant in the more open areas and patches of ruderal herbs and scattered scrub. The grassland patches are forb-rich, including <i>Hypochaeris radicata</i> , <i>Lotus corniculatus</i> , <i>Vicia cracca</i> , <i>Trifolium pratense</i> and others. On the east side of the track the grassland appears to be more acidic, with <i>Teucrium scorodonia</i> , <i>Deschampsia flexuosa</i> , <i>Agrostis capillaris</i> and occasional <i>Campanula rotundifolia</i> and <i>Erica cinerea</i> .
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The section might be worth further study.

Section number	Grid ref.	Locality	Habitat type and special characteristics
106.	991001	Near Bent Rigg Lane	<p>The area consists of a mosaic of moderately dense scrub/small trees and neutral grassland, with a few more acidic patches and some forb-rich patches. The forbs include <i>Dactylorhiza fuchsii</i> and <i>Succisa pratensis</i>.</p> <p>The section might be worth further study.</p>
118.	993988	Near Bees' Nest Farm	<p>Cutting with forb-rich neutral grassland which consists of a very mixed stand of mainly short grasses. Less common plants include <i>Avenula pubescens</i> and, in the ditch beside the track, a small patch of <i>Juncus articulatus</i>.</p> <p>The section ought to be given detailed study.</p>
120.	994984	Near Quarry Farm	<p>Dominated by tall dense <i>Salix caprea</i> with scattered trees and scrub species, with a locally dominant patch of <i>Prunus spinosa</i> on the embankment. In deep shade on the embankment the field layer is dominated by ferns (<i>Dryopteris filix-mas</i> and <i>Dryopteris dilatata</i>) and <i>Mercurialis perennis</i>. Near the southern end of the section <i>Equisetum telmateia</i> is locally dominant.</p> <p>The section might be worth further study.</p>
124.	999974	Hayburn Beck	<p>Semi-natural deciduous woodland dominated by <i>Fraxinus excelsior</i> covering a short but high embankment.</p> <p>The section might be worth further study.</p>
128.	005971	Near Hayburn Wyke Station	<p>Semi-natural deciduous woodland in the northern part of the section, merging into tall <i>Salix caprea</i> in the southern part. The woodland is dominated by <i>Fraxinus excelsior</i> and <i>Acer pseudoplatanus</i>. Notable plants include a blue-flowered <i>Knautia</i> sp., which is obviously a garden escape, growing beside a bridge, <i>Circaea lutetiana</i>, and in a small boggy patch, <i>Equisetum sylvaticum</i>, <i>Chrysosplenium oppositifolium</i>, <i>Cardamine flexuosa</i>, <i>Veronica beccabunga</i> and <i>Callitriche</i> sp.</p> <p>The section might be worth further study.</p>



Section number	Grid ref.	Locality	Habitat type and special characteristics
129.	008967	Hayburn Wyke Station	Semi-natural deciduous woodland, with tall (8 m) <i>Salix caprea</i> , <i>Acer pseudoplatanus</i> and <i>Fraxinus excelsior</i> dominant. Other notable species include a single bush of <i>Rhododendron ponticum</i> , two plants of <i>Epipactis helleborine</i> , also <i>Milium effusum</i> , <i>Equisetum sylvaticum</i> and <i>Campanula latifolia</i> .  The section deserves further study.
135.	015954	South of Hood Lane	Mixed mosaic of dense scrub with trees, neutral grassland and tall ruderal herbs. There is also a patch of dry acidic dwarf shrub heath and a small patch of <i>Pteridium aquilinum</i> - a very complex area.  Section 135 deserves further study.
136.	014953	Near Cloughton	Cutting containing a mosaic of moderately dense scattered scrub with trees, neutral grassland and a patch of heath. Species of interest include <i>Solidago virgaurea</i> , <i>Knautea arvensis</i> and <i>Oreopteris limbosperma</i> .  The section deserves further study.
141.	011941	Cloughton Station	Disused railway station and sidings. Within the station area is an area of mixed vegetation including <i>Cytisus scoparius</i> along the eastern boundary and some spoil heaps on which ephemerals including <i>Chenopodium album</i> and <i>Sisymbrium officinale</i> are growing. Also present, presumably as a relic of the former station garden, is <i>Senecio cineraria</i> . The area of disused sidings south of the station is bordered on the west side by <i>Pinus sylvestris</i> and <i>Acer pseudoplatanus</i> , and on the east side by <i>Betula pubescens</i> with <i>Salix cinerea</i> and <i>Rosa caesia</i> . The area in between is species-rich grassland with forbs, the areas of taller vegetation being dominated by <i>Arrhenatherum elatius</i> and <i>Dactylis glomerata</i> , with <i>Rumex obtusifolius</i> , <i>Hieracium sphondylium</i> , <i>Chamaenerion angustifolium</i> and <i>Plantago lanceolata</i> , whilst the shorter vegetation is dominated by <i>Festuca rubra</i> and <i>Lolium perenne</i> , with <i>Centaurea nigra</i> , <i>Crepis capillaris</i> , <i>Hypochaeris radicata</i> , <i>Trifolium dubium</i> , <i>T. pratense</i> , <i>T. repens</i> and <i>Hieracium</i> agg. There is also a patch of <i>Symphytum officinale</i> .  The section deserves further study.