

Tree Survey
Westwood Mills, Linthwaite

Report reference: AR-3976-01
February 2020

Report Title: Tree Survey
Westwood Mills, Linthwaite

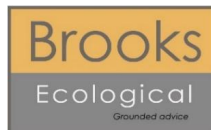
Report Reference: AR-3976-01

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Summary Statement

The Site consists of a former mill complex which has fallen into ruin, subsequently becoming overgrown. It is located within Linthwaite, a village in Kirklees c.4.5km south west of Huddersfield. The River Colne binds the Site to the south with the Huddersfield Narrow Canal to the north. The Site tapers towards its western edge where these two waterways nearly meet. To the east lies Low Westwood Lane.

This report should be read in conjunction with the attached Tree Constraints Plan Ref: DR-3976-01.

Introduction

Purpose of the report

1. This report has been commissioned to provide professional independent, detailed arboricultural advice on all relevant trees present at land Westwood Mills, Low Westwood Lane, Linthwaite (grid reference SE09571459).
2. This report has been undertaken in accordance with BS 5837:2012 Trees in relation to construction – Recommendations.
3. The client has provided a topographical plan.
4. All findings and recommendations are based on visual observations conducted from ground level during the Site visit only. No other diagnostic procedures were used to establish any extent of internal decay nor was a climbing inspection undertaken.
5. All measurements were obtained with the use of a clinometer and an electronic distometer. On occasion it is not viable to provide accurate measurements due to restricted access or other mitigating circumstances on site, and the data may be estimated.

Legal implications of work to trees

6. Due to the potentially large penalties for illegally carrying out work to protected trees, it is recommended that a check with the local planning authority is carried out prior to any tree works being undertaken and any required consents such as for work to trees with Tree Preservation Orders and/or Conservation Areas are obtained before work to trees on site. Additionally, work to trees at certain times of the year may contravene sections of the Wildlife and Countryside Act regarding nesting and roosting of protected species.
7. Every tree owner has a general duty of care to ensure their tree(s) does not pose an unacceptable risk to other people on or adjacent to their land. The landowner will only be liable for injury or damage caused by trees if they are found to be negligent.

8. There is no legal obligation for a tree owner to cut back growth from a neighbouring property. However, under Common law of tort of nuisance, an affected neighbour has the right to cut back roots or branches that encroach onto a neighbouring property back to the boundary of the land owned by the person abating the nuisance without the neighbour's consent (with the exception of TPO's or CA's). The person abating the nuisance has a duty to exercise reasonable care in carrying out work as a failure to do so may lead to liability in negligence (for example where removal of roots makes a tree unstable).

Site description

9. The Site consists of a former mill complex which has fallen into ruin, subsequently becoming overgrown. It is located within Linthwaite, a village in Kirklees c.4.5km south west of Huddersfield. The River Colne binds the Site to the south with the Huddersfield Narrow Canal to the north. The Site tapers towards its western edge where these two waterways nearly meet. To the east lies Low Westwood Lane.
10. The wider landscape is largely made up of agricultural land punctuated by small hamlets and villages. Urban development increases in density to the north east within proximity of Huddersfield town centre.

Survey conditions

11. The trees were surveyed in cool, cloudy conditions with occasional showers on 17th February 2020.

Tree data abbreviations and survey methodology

| | | | |
|-------|-----------------------|-----|-----------------------------|
| T | Tree | GL | Ground level |
| G | Tree group | MS | Multi-stemmed |
| H | Hedge | AFP | Access facilitation pruning |
| OSB | Outside Site boundary | Ave | Average dimension |
| #/est | Estimated dimension | Typ | Typical dimension |
| N | North | E | South |

| | | | |
|-----|----------|-----|--------|
| S | South | W | West |
| Min | Minimum | Lwr | Lower |
| adj | Adjacent | Ht | Height |

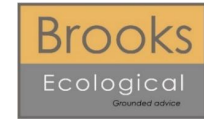
12. The trees were assessed visually from ground level. Where access to a tree is restricted this is noted in the schedule.
13. The tree reference numbers refer to the attached Tree Constraints Plan (TCP) references. The trees were not tagged for this survey.
14. The tree species is listed by common name in the schedules, with a key to scientific names below:

| Common name | Botanical name | Common name | Botanical name |
|-------------------|------------------------------------|---------------------|----------------------------|
| Alder (common) | <i>Alnus glutinosa</i> | Goat willow | <i>Salix caprea</i> |
| Alder (grey) | <i>Alnus incana</i> | Hawthorn | <i>Crataegus monogyna</i> |
| Apple | <i>Malus domestica</i> | Hazel | <i>Corylus avellana</i> |
| Aspen | <i>Populus tremula</i> | Holly | <i>Ilex aquifolium</i> |
| Ash | <i>Fraxinus excelsior</i> | Hornbeam | <i>Carpinus betulus</i> |
| Beech | <i>Fagus sylvatica</i> | Larch | <i>Larix decidua</i> |
| Birch (silver) | <i>Betula pendula</i> | Lime (common) | <i>Tilia x europaea</i> |
| Birch (downy) | <i>Betula pubescens</i> | Lime (small-leaved) | <i>Tilia cordata</i> |
| Chestnut (sweet) | <i>Castanea sativa</i> | Maple (field) | <i>Acer campestre</i> |
| Chestnut (horse) | <i>Aesculus hippocastanum</i> | Maple (Norway) | <i>Acer platanoides</i> |
| Cherry (wild) | <i>Prunus avium</i> | Poplar (black) | <i>Populus nigra</i> |
| Cherry (bird) | <i>Prunus padus</i> | Oak (sessile) | <i>Quercus petraea</i> |
| Cherry (Japanese) | <i>Prunus serrulata</i> | Oak (pendunculate) | <i>Quercus robur</i> |
| Leyland Cypress | <i>X Cupressocyparis leylandii</i> | Rowan/mountain ash | <i>Sorbus aucuparia</i> |
| Elm (English) | <i>Ulmus procera</i> | Sycamore | <i>Acer pseudoplatanus</i> |
| Elm (wych) | <i>Ulmus glabra</i> | Weeping willow | <i>Salix chrysocoma</i> |
| | | Whitebeam (Swedish) | <i>Sorbus intermedia</i> |

15. Measurement of the existing height above ground level of the first significant branch and the direction of growth and the height of the canopy. This informs ground clearance, crown/stem ratio and shading.
16. The stem/trunk diameter is measured with a diameter tape at 1.5m from ground level around the stem for single stem trees and for multi-stemmed trees and other variants in accordance with Annex C of the British Standard. Where access restricts measurement of the tree, an estimate has been made, denoted by '#'.
17. Canopy spread is measured with an electronic distometer. The close-spacing of some of the trees impeded measurements of canopy spread and height and estimates were made.
18. The age of the tree is based on the typical longevity of the particular tree species. The age classes are: young (Y), semi-mature (SM), early mature (EM), mature (M), over-mature (OM) and veteran (V).
19. The physiological condition of the tree is an assessment of its likely health, vigour and stress. The classes for physiological condition are: good, fair, poor and dead.
20. Structural condition includes tree form, visible defects, irregularities and influencing factors.
21. Preliminary management recommendations note work (with prior approval where necessary) to promote the health and longevity of the tree and/or improve safety and/or increase habitat potential.
22. The life expectancy (life exp.) is the estimated remaining contribution in years, (<10, 10+, 20+, 40+).
23. The retention category (ret cat) for each tree is assessed in accordance with BS 5837: 2012 Table 1, summarised as below:

Category A Trees of high quality with an estimated remaining life expectancy (ERC) of at least 40 years. Green canopy outline on plan.

Category B Trees of moderate quality with an estimated ERC of at least 20 years. Blue canopy outline on plan.



Category C Trees of low quality with an ERC of at least 10 years, OR young trees with a stem diameter below 150mm. Grey canopy outline on plan.

Category U Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. Trees unsuitable for retention. Dark red canopy outline on plan.

24. Sub- categories of 1, 2 or 3 are included in the tree data tables and are defined as follows:

Sub-category 1 trees are those with 'mainly arboricultural value'

Sub-category 2 trees are those with 'mainly landscape value'

Sub-category 3 trees are those with 'mainly cultural or conservation value'.

25. The root protection area (RPA) in m²is for layout purposed and indicates the 'minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority'. The RPA is calculated in accordance with BS 5837: 2012 Annex D. Where Site features are likely to have distorted the typical RPA, a polygon of the same area is estimated on plan to reflect a more realistic shape, in accordance with the British standard.

Tree data

26. The following schedule contains the tree data obtained on site:

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|-----------|----------|------------|--------|------------|---------------------------------|------------------------------------|----------------|--|-----------------------------------|-----------------|---------|
| T1 | Sycamore | EM | 16 | 1.8 NE | 428 | N 5.5 E 5.3 S #5.5 W 4.73 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. Covered in lichen. Cavities noted throughout. Overhanging road and river. | Crown clean and monitor cavities. | 20-40 | B1 |
| T2 | Sycamore | EM | 16 | 1.5 E | 300 270 260 100 120 | N 7.4 E #7 S #5 W #6 | Fair | Fair. Multi-stemmed at base with a balanced canopy. Covered in lichen. Minor cavities throughout. Limited inspection as on rivers edge. | Monitor cavities. | 20-40 | C1 |
| T3 | Sycamore | M | 17 | 2.5 NE | 616 | N 6.92 E #7 S #7 W 7.29 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Deadwood and stubs evident throughout canopy. Minor cavities throughout. Soil pocket at union. Overhanging road and river. | Crown clean and monitor. | 20-40 | B1 |
| T4 | Ash | | 16 | 5 | 316 | N #6 E #6 S #6.5 W #7 | Fair | Fair. Twin-stemmed at 4m with a balanced canopy. Covered in ivy. Deadwood and stubs evident throughout canopy. Overhanging road and beck. Limited inspection. | Crown clean. | 20-40 | C1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physiological | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|-----------|----------|------------|--------|------------|----------------|-------------------------------------|---------------|---|-----------------------------------|-----------------|---------|
| T5 | Sycamore | M | 18 | 5 N | 659 | N 7.03 E 7.4 S #6 W 5.77 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Overhanging road and river. | Crown clean and monitor cavities. | 20-40 | B1 |
| T6 | Sycamore | M | 18 | 5 N | 1027 | N 7.72 E 6.14 S #7 W #7 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Covered in ivy. Overhanging road and river. | Crown clean. | 20-40 | B1 |
| G7 | Sycamore | | To 15 | 0+ | To 300 | See plan | Good | Fair. Scrappy group located on edge of beck. Deadwood and stubs evident throughout. Good screenage. Some poorer trees. Overhanging road. | Crown clean. | 20-40 | B2 |
| T8 | Sycamore | M | 17 | 7 N | 788 | N 6.32 E 6.69 S #7 W #5.77 | Good | Fair. Twin-stemmed at 2.2m with a balanced canopy. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Covered in ivy. Overhanging road and river. | Crown clean and monitor cavities. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|-------------|------------|--------|------------|-----------------------|--------------------------------|----------------|---|-----------------------------------|-----------------|---------|
| T9 | Sycamore | | 17 | 7 E | 417 | N 3.37 E #4 S #6 W #4 | Fair | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. Covered in ivy. Located on rivers edge. | Crown clean. | 20-40 | C1 |
| T10 | Sycamore | M | 17 | 2 W | 592 | N 5.68 E #6 S #6 W #6 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Deadwood and stubs evident throughout canopy. Covered in lichen. Minor cavities throughout. Overhanging river. | Crown clean and monitor cavities. | 20-40 | B1 |
| T11 | Goat Willow | EM | 16 | 0+ | To 180x5 | N 10.6 E #5 S #5 W #5 | Fair | Fair. Multi-stemmed at base with a balanced canopy. Typ. of species. Deadwood and stubs evident throughout canopy. Semi-collapsed state. Scrappy looking. Limited inspection as in dense bramble. | No action required. | 20-40 | C1 |
| G12 | Sycamore | EM | To 17 | 1+ | 380 + 350 + 360 | See plan | Good | Fair. Three trees growing close together. Epicormic growth at base. Deadwood and stubs evident throughout canopy. Located in dense bramble. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|--------------------------|------------|--------|------------|------------------|--------------------------------------|----------------|--|--------------------------------------|-----------------|---------|
| T13 | Sycamore | M | 17 | 3.5 N | 692 | N 8.54 E #7.5 S #7.5 W #7.5 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Covered in lichen. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean and monitor cavities. | 20-40 | B1 |
| T14 | Sycamore | | 17 | 3 E | 665 | N 5.83 E 4.55 S #5 W #5 | Good | Fair. Twin-stemmed at 2m with a balanced canopy. Major bark wound to NE with decay. Minor cavities throughout. Overhanging river. | Crown clean and monitor bark wounds. | 20-40 | B1 |
| T15 | Sycamore | M | 17 | 4 N | 820 | N 6.39 E 7.9 S 6.84 W 6.8 | Good | Fair. Multi-stemmed at 2m with a balanced canopy. Some include bark at unions. Wide spreading canopy with deadwood and stubs evident throughout. Overhanging building. | Crown clean. | 20-40 | B1 |
| G16 | Goat Willow and Sycamore | | To 15 | 0+ | To 300 | See plan | Fair | Fair. Multi-stemmed at base with an unbalanced canopy. Typ. of species. Growing on top of wall. | No action required. | 20-40 | C1 |
| T17 | Sycamore | | 17 | 1.9 | 450 270 37 | N 8.3 E 8 S #6.5 W 8 | Good | Fair. Multi-stemmed at base with a balanced canopy. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Covered in ivy. Overhanging river. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physiological | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|----------|------------|--------|------------|---------------------------|-------------------------------------|---------------|---|---|-----------------|---------|
| T18 | Sycamore | | 17 | 2.5 | 460 280 300 1900 | N 7.3 E 6.9 S #6 W #5.8 | Good | Fair. Multi-stemmed at base with a balanced canopy. Minor cavities throughout. Deadwood and stubs evident throughout canopy. Covered in ivy. Epicormic growth at base. Overhanging river. | Crown clean and clear epicormic growth. | 20-40 | B1 |
| T19 | Sycamore | M | 17 | 1.8 | 589 | N 5.84 E 6.28 S 6.54 W 5.3 | Good | Fair. Twin-stemmed at 0.5m with a balanced canopy. Included bark at union. Deadwood and stubs evident throughout canopy. | Crown clean and monitor included bark. | 20-40 | B1 |
| T20 | Hawthorn | EM | 6 | 0 | To 100x6 | N 3.5 E 3.5 S 3.5 W 3.5 | Fair | Fair. Multi-stemmed at base with a balanced canopy. Typ. of species. | No action required. | 20-40 | C1 |
| T21 | Oak | EM | 16 | 1.5 N | 465 | N #7 E #5 S #3 W #5 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Barbed wire growing into stem. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | B1 |
| T22 | Oak | EM | 15 | 2 N | 445 | N #7 E #5 S #3 W #5 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|-------------|------------|--------|------------|-------------------|--------------------------|----------------|---|---------------------|-----------------|---------|
| T23 | Hawthorn | EM | 6 | 0 | To 100x4 | N 3 E 3 S 3 W 3 | Fair | Fair. Typical of species. No major visible defects noted. | No action required. | 20-40 | C1 |
| T24 | Goat Willow | EM | 16 | 1 N | 350 at base | N 7 E 7 S 7 W 7 | Fair | Fair. Multi-stemmed at 1.5m with a balanced canopy. Included bark at unions. Typ. of species. Deadwood and stubs evident throughout canopy. Limited inspection as located in dense bramble. | No action required. | 20-40 | C1 |
| T25 | Sycamore | EM | 16 | 1.6 | 376 | N 5 E 6 S 6 W 3 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. Growing close to T26. | Crown clean. | 20-40 | B1 |
| T26 | Sycamore | EM | 16 | 1.8 | 350 200 300 | N 6 E 3 S 2 W 4 | Good | Fair. Multi-stemmed at base with an unbalanced canopy. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | B1 |
| T27 | Sycamore | EM | 16 | 2 | 637 | N 5 E 3 S 2 W 3 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|--------------------------|------------|--------|------------|----------------------|--------------------------------------|----------------|--|----------------------------|-----------------|---------|
| T28 | Sycamore | M | 20 | 2.2 | 1001 | N 10.5 E 10.5 S 10.5 W 10.5 | Good | Fair. Single-stemmed and vertical with a balanced canopy. Sucker growth with some bark wounds noted. Small holly near base. | No action required. | 20-40 | A1 |
| T29 | Sycamore | | 17 | 0.5 | #450 #400 #250 | N 10 E 10 S 10 W 10 | Good | Fair. Multi-stemmed at base with a balanced canopy. Deadwood and stubs evident throughout canopy. No inspection as covered in ivy. | Remove ivy and re-inspect. | 20-40 | B1 |
| G30 | Goat Willow and Sycamore | | To 11 | 0+ | To 200 | See plan | Fair | Fair. Scrappy group along poly tunnel. Typ. of species. Covered in ivy. Deadwood and stubs evident throughout canopy. | No action required. | 10-20 | C1 |
| T31 | Goat Willow | | 8 | 0 | To 150 | N 4 E 4 S 4 W 4 | Fair | Fair. Scrappy group along poly tunnel. Typ. of species. Deadwood and stubs evident throughout canopy. | No action required. | 10-20 | C1 |
| T32 | Goat Willow | | 8 | 0 | To 150 | N 3.5 E 3.5 S 3.5 W 3.5 | Fair | Fair. Scrappy group along poly tunnel. Typ. of species. Deadwood and stubs evident throughout canopy. | No action required. | 10-20 | C1 |
| T33 | Goat Willow | | 8 | 0 | To 150 | N 3 E 3 S 3 W 3 | Fair | Fair. Scrappy. Typ. of species. Deadwood and stubs evident throughout canopy. | No action required. | 10-20 | C1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|----------|------------|--------|------------|----------------|----------------------------------|----------------|--|---------------------|-----------------|---------|
| T34 | Sycamore | | 15 | 1.8 | 360 100 | N 4 E 4 S 4 W 4 | Fair | Fair. Twin-stemmed at 0.5m with a balanced canopy. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | C1 |
| T35 | Sycamore | | 15 | 2 | 220 300 | N 3.5 E 3.5 S 3.5 W 3.5 | Fair | Fair. Twin-stemmed at 0.5m with a balanced canopy. Deadwood and stubs evident throughout canopy. | Crown clean. | 20-40 | C1 |
| G36 | Sycamore | | To 16 | 0+ | To 350 | See plan | Fair | Fair. Single-stemmed and vertical with an unbalanced canopy. Deadwood and stubs evident throughout canopy. Typ. of species. | No action required. | 20-40 | C1 |
| T37 | Sycamore | M | 16 | 2 | 650 | N 5.5 E 5.4 S 5.5 W 7 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| T38 | Sycamore | M | 16 | 2 | 718 | N 7 E 7 S 5 W 6 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physiological | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|----------|------------|--------|------------|----------------|--------------------------|---------------|--|-----------------|-----------------|---------|
| T39 | Sycamore | M | 16 | 2 | 541 | N 5 E 6 S 4 W 3 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| T40 | Sycamore | M | 16 | 2 | 712 | N 6 E 9 S 8 W 5 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| T41 | Sycamore | M | 16 | 2 | 452 | N 7 E 8 S 5 W 6 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| T42 | Sycamore | M | 16 | 2 | 737 | N 4 E 4 S 6 W 7 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physiological | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|----------|---------------|----------|------------|-------------------|--------------------------|---------------|--|----------------------|-----------------|---------|
| T43 | Sycamore | M | 16 | 2 | 551 | N 5 E 6 S 8 W 3 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| T44 | Sycamore | M | 16 | 2 | 670 270 280 | N 7 E 6 S 5 W 3 | Good | Fair. Single-stemmed and vertical with an unbalanced canopy. Minor cavities noted throughout. Deadwood and stubs evident throughout canopy. Overhanging river. | Crown clean. | 20-40 | B1 |
| G45 | Mixed | Y SM EM | To 16 | 0+ | To 300 | See plan | Good | Fair. Dense group. Some poorer trees. Located along beck. | No action required. | 20-40 | B2 |
| G46 | Mixed | | To 17 | 0+ | To 300 | See plan | Good | Fair. Dense group of goat willow, alder, birch and hawthorn. Some poorer trees. Deadwood and stubs evident throughout canopy. Bark wounds noted throughout. | Requires Management. | 20-40 | B2 |
| G47 | Mixed | Y SM EM | To 17 | 0+ | To 350 | See plan | Good | Fair. Contains sycamore, pine, ash, poplar and alder. Just outside redline boundary with some overhang. | No action required. | 20-40 | B2 |

| Ref | Species | Life stage | Ht (m) | Can Ht (m) | Stem diam (mm) | Canopy spread (m) | Physio logical | Structural condition | Recommendations | Life exp. (yrs) | Ret cat |
|------------|----------|------------|--------|------------|----------------|--------------------------|----------------|--|---------------------|-----------------|---------|
| T48 | Hawthorn | EM | 6 | 0.5 | To 155 | N 3 E 3 S 3 W 3 | Fair | Fair. Multi-stemmed at base with a balanced canopy. Typ. of species. Located in bramble. | No action required. | 10-20 | C1 |
| T49 | Hawthorn | EM | 6 | 0.5 | To 155 | N 3 E 3 S 3 W 3 | Fair | Fair. Multi-stemmed at base with a balanced canopy. Typ. of species. Located in bramble. | No action required. | 10-20 | C1 |
| G50 | Birch | Y | To 8 | 0+ | To 150 | See plan | Fair | Fair. Young self-sown birch. | No action required. | 20-40 | C1 |

Findings

Tree descriptions and recommendations

29. The tree survey revealed a total of forty-one individual trees and nine groups of trees. Of these, one tree was identified as retention category 'A', thirty-one trees/groups were identified as retention category 'B' and eighteen trees/groups were identified as retention category 'C'. There were no retention category 'U' trees identified. Please refer above for retention category and definition criteria.
30. It has been recommended that trees T1, T2, T3, T4, T5, T8, T10, T13, T14 & T19 are monitored annually to assess if their condition is still acceptable.
31. Light pruning works have been recommended to T1, T3, T5, T6, G7, T8, T10, G12, T13, T14, T15, T17, T18, T19, T21, T22, T25, T26, T27, T34, T35, T37, T38, T39, T40, T41, T42, T43 & T44 on this site, for reasons of public safety and to ensure the long-term health of the trees, as detailed at Appendix 1.

- 32. Those trees which overhang the public footpaths or public highways, detailed IN Tree Data, shall require future maintenance to maintain clearance heights for vehicular or pedestrian traffic. These heights should be 5.6m above a road and 2.5m above a footpath.



Figure 1

Looking east along the roadway at the sycamores lining the river in the south east corner of the Site.



Figure 2

A view of the sycamores (T37 to T44) along the southern boundary of the Site, with the river running behind.



Figure 3

A typical view of G46 located within a former mill pond.

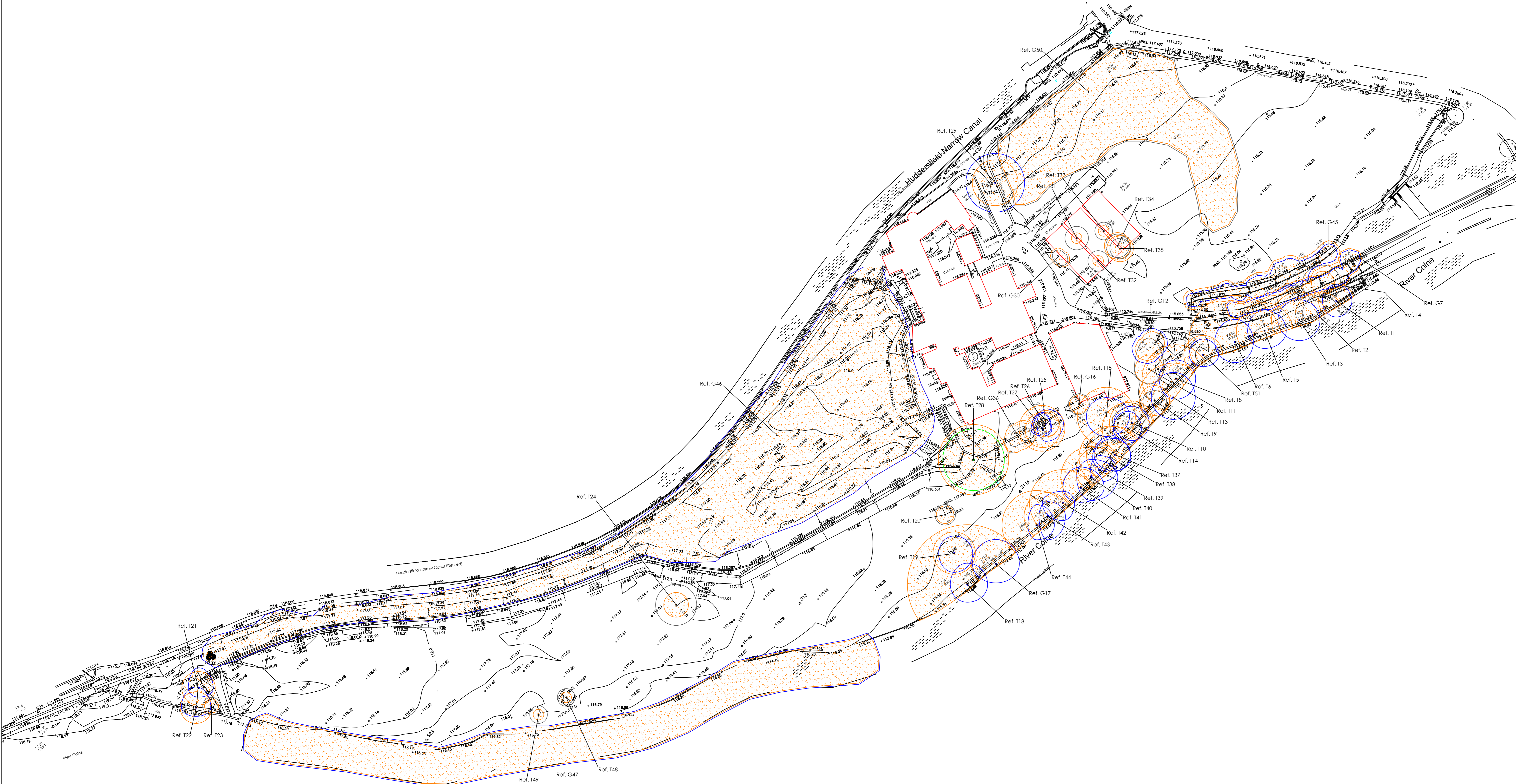
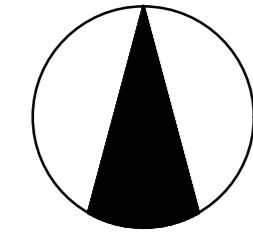


Figure 4

Looking west at T21, T22 and T23 at the western tip of the Site.

Figure 5

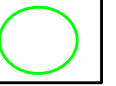



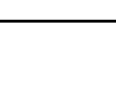
View of elder located along the canal towpath, offsite to the north.



NOTE
This plan is for guidance only and should not be scaled from.
The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

The positions of the tree groups and some trees are estimated only.

KEY
BS5837:2012 Retention categories:

- Retention category A 
- Retention category B 
- Retention category C 
- Category U 
- Roof Protection Area (RPA) 

Westwood Mill, Linthwaite

Tree Constraints Plan

Dwg. No. DR-3976-01

Scale: 1:500 @A0 Date: Feb. 2020

