

Appendix A - Tree Schedule

| Measurements | Age Classes | Quality Assessment of BS Category | ULE (relates to BS Category) |
|--|---|---|------------------------------|
| Height - Measured using a digital laser clinometer (m) | YNG: Establishing, typically with good vigour and fast growth rates and strong apical dominance; c. less than 1/3 life expectancy | 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. | <10 years |
| Stem Dia. - Diameter measured (mm) in accordance with Annex C of the BS5837 | SM: Semi-mature trees less than 1/3 life expectancy | Category A - Trees of high quality with an estimated remaining life expectancy of at least 40 years. | 40+ years |
| Crown Radius - Measured using a digital laser clinometer radially from the main stem (m) | EM: Established, typically vigorous and increasing in apical height and lateral spread; 1/3 - 2/3 life expectancy. Offers landscape significance | Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. | 20-40 years |
| Abbreviations est - Estimated stem diameter avg - Average stem diameter for multiple stems upto - Maximum stem diameter of a group | M: Fully established over 2/3 life expectancy, generally good vigour and achieving full height potential with crown still spreading | Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. | 10-20 years |
| | OM: Fully mature, at the extremes of expected life expectancy, vigour decreasing, declining or moribund | Sub-categories: (i) - Mainly arboricultural value (ii) - Mainly landscape value (iii) - Mainly cultural or conservation value | |
| | V: biological, cultural or aesthetic value comprising niche saproxylic habitat. Individuals of large proportions (stem girth) in comparison to trees of the same species/surviving beyond the typical age range for their species. | The BS category particular consideration has been given to the following: <ul style="list-style-type: none"> • The presence of any structural defects in each tree/group and its future life expectancy • The size and form of each tree/group and its suitability within the context of a proposed development • The location of each tree relative to existing site features e.g. its screening value or landscape features • Age class and life expectancy | |

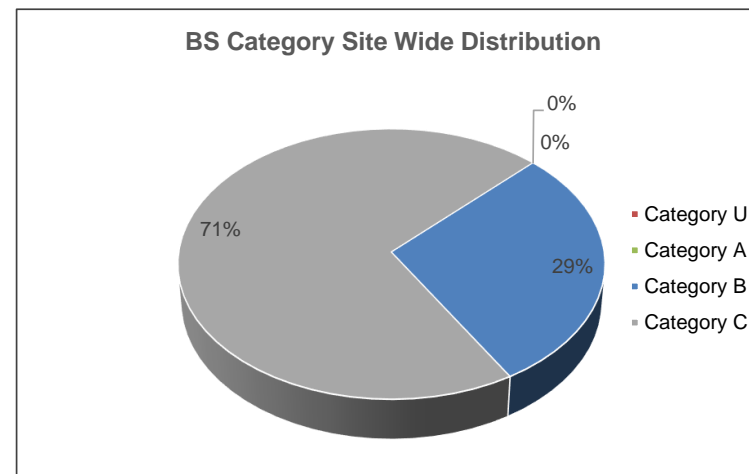
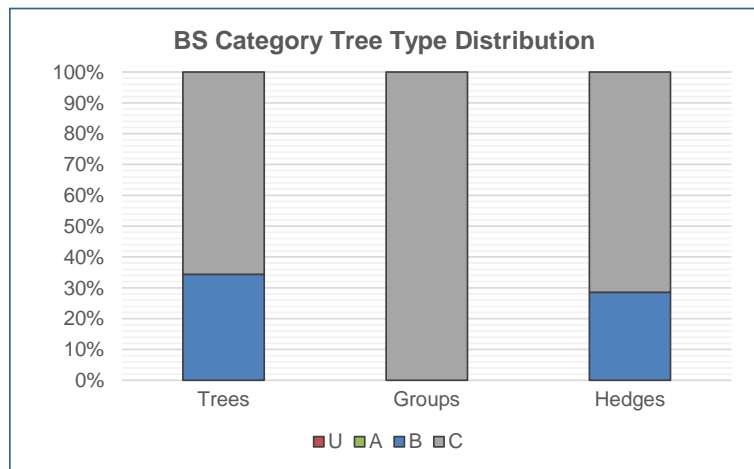
| Structural Condition | Physiological Condition | Root Protection Area (RPA) |
|---|--|--|
| Good - No significant structural defects | Good - No significant health problems | <ul style="list-style-type: none"> • The RPA Radius column provides the extent of an equivalent circle from the centre of the stem (m). • The RPA is calculated using the formulae described in paragraph 4.6.1 of British Standard 5837: 2012 and is indicative of the rooting area required for a tree to be successfully retained. Tree roots extend beyond the calculated RPA in many cases and where possible a greater distance should be protected. • Where veteran trees have been identified the RPA has been calculated in accordance with Natural England guidance i.e. 15x the stem diameter, uncapped. |
| Fair - Structural defects that can be remediated | Fair - Symptoms of ill-health that can be remediated | |
| Poor - Significant defects beyond remediation, present a risk of failure in the foreseeable future | Poor - Significant ill-health. Unlikely the tree will recover in the long term | |
| Dead - Dead tree with structural integrity of tree severely compromised | Advanced Decline / Dead - Advanced state of decline and unlikely to recover or Dead | |

Appendix Summary

| | Individual Trees | Totals | Tree Groups and Hedgerows | Totals |
|------------|--|-----------|--|-----------|
| Category U | | 0 | | 0 |
| Category A | | 0 | | 0 |
| Category B | T1, T3, T13, T14, T15, T18, T19, T20, T22, T23, T24 | 11 | H3, H5 | 2 |
| Category C | T2, T4, T5, T6, T7, T8, T9, T10, T11, T12, T16, T17, T21, T25, T26, T27, T28, T29, T30, T31, T32 | 21 | G1, G2, G3, G4, G5, G6, H1, H2, H4, H6, H7 | 11 |
| | Total | 32 | Total | 13 |

BS Category Tree Type Distribution displays the proportion of trees assessed in each type to enable a better understanding of the category distribution.

BS Category Site Wide Distribution shows the proportion of trees assessed in each category across the whole site which allows an interpretation of the site's overall quality.



| Tree No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|-------------------------|--|--------|-------------------|--------------|-----------|-------------------|---|-----|------------|------------|
| INDIVIDUAL TREES | | | | | | | | | | |
| T1 | Ash Fraxinus excelsior | 21 | 1200 | 9 | OM | F | Situated beyond application boundary established basal growth storm damage with broken branches and branch stubs branch socket cavities die back of upper crown with large diameter dead branches | 651 | 14.4 | B (i) |
| T2 | Ash Fraxinus excelsior | 10 | 300 | 4 | EM | F | Situated within tree group ivy cover obscures main stem | 41 | 3.6 | C (i) |
| T3 | Whitebeam Sorbus aria | 7 | 480 | 4 | M | F | Situated close to existing field access kink in main stem past pruning to raise crown above access broken branches wire fencing attached to stem hawthorn at base | 104 | 5.8 | B (i) |
| T4 | Hawthorn Crataegus monogyna | 6 | 150 150 | 2 | M | F | Escaped hedgerow tree twin stemmed from 1m lower crown maintained | 20 | 2.5 | C (i) |
| T5 | Horse Chestnut Aesculus hippocastanum | 7 | 220 | 3 | SM | F | Situated within field boundary hedgerow past pruning to remove basal suckers | 22 | 2.6 | C (i) |
| T6 | Ash Fraxinus excelsior | 11 | 330 300 280 | 5 | EM | F | Situated within field parcel likely self seeded three stems develop from base past pruning to raise crown limited arboricultural value | 125 | 6.3 | C (i) |
| T7 | Hawthorn Crataegus monogyna | 7 | 250 150 | 3 | M | F | Outgrown hedgerow tree twin stemmed from base | 38 | 3.5 | C (i) |

| Tree No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|---------|--------------------------------|--------|--------------------------|--------------|-----------|-------------------|---|-----|------------|------------|
| T8 | Ash Fraxinus excelsior | 11 | 600 | 5 | M | P / F | Situated within boundary hedgerow column of decay up main stem from base to 4m large dead branch within centre of crown broken branches and branch stubs | 163 | 7.2 | C (i) |
| T9 | Ash Fraxinus excelsior | 7 | 320 | 4 | EM | P | Situated within boundary hedgerow Innonotus hispidus brackets evident on main stem die back of crown with large diameter dead branches | 46 | 3.8 | C (i) |
| T10 | Ash Fraxinus excelsior | 7 | 250 250 150 150 | 4 | EM | F | Situated within boundary hedgerow multi stemmed from base broken branches and branch stubs noted | 77 | 4.9 | C (i) |
| T11 | Ash Fraxinus excelsior | 7 | 250 250 250 | 3 | EM | F | Situated within boundary hedgerow multi stemmed from base broken branches and branch stubs noted | 85 | 5.2 | C (i) |
| T12 | Ash Fraxinus excelsior | 9 | 300 250 | 4 | EM | F | Situated within boundary hedgerow twin stemmed from base broken branches and branch stubs noted | 69 | 4.7 | C (i) |
| T13 | Ash Fraxinus excelsior | 11 | 300 300 300 300 | 6 | M | F | Situated within boundary hedgerow multi stemmed from base broken branches and branch stubs noted ivy cover obscures base and stems | 163 | 7.2 | B (i) |
| T14 | Hawthorn Crataegus monogyna | 7 | 250 250 250 | 5 | M | F | Outgrown hedgerow tree multi stemmed stems have fused lower crown maintained along field edge | 85 | 5.2 | B (i) |
| T15 | Hawthorn Crataegus monogyna | 7 | 250 250 250 250 | 5 | M | F | Outgrown hedgerow tree multi stemmed stems have fused lower crown maintained along field edge | 113 | 6.0 | B (i) |

| Tree No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|---------|--|--------|--|--------------|-----------|-------------------|---|-----|------------|------------|
| T16 | Hawthorn <i>Crataegus monogyna</i> | 6 | 200 200 200 | 4 | M | F | Outgrown hedgerow tree multi stemmed stems have fused lower crown maintained along field edge | 54 | 4.2 | C (i) |
| T17 | Hawthorn <i>Crataegus monogyna</i> | 6 | 250 250 | 4 | M | F | Outgrown hedgerow tree multi stemmed stems have fused lower crown maintained along field edge | 57 | 4.2 | C (i) |
| T18 | Silver Birch <i>Betula pendula</i> | 9 | est 300 | 4 | M | G | Situated beyond boundary hedgerow unable to access base | 41 | 3.6 | B (i) |
| T19 | Scots Pine <i>Pinus sylvestris</i> | 10 | est 350 | 4 | M | G | Situated beyond site boundary within residential garden unable to access base | 55 | 4.2 | B (i) |
| T20 | Scots Pine <i>Pinus sylvestris</i> | 10 | est 350 | 4 | M | G | Situated beyond site boundary within residential garden unable to access base | 55 | 4.2 | B (i) |
| T21 | Hybrid Black Poplar <i>Populus x canadensis</i> | 10 | est 300 | 3 | EM | F | Situated beyond site boundary within residential garden unable to access base close spacing between trees | 41 | 3.6 | C (i) |
| T22 | Field Maple <i>Acer campestre</i> | 10 | est 350 250 200 200 200 | 5 | M | G | Situated beyond site boundary within residential garden unable to access base close spacing between trees | 138 | 6.6 | B (i) |
| T23 | Norway Spruce <i>Picea abies</i> | 8 | est 220 | 4 | EM | F | Situated beyond site boundary within residential garden unable to access base | 22 | 2.6 | B (i) |
| T24 | Holly <i>Ilex aquifolium</i> | 7 | est 300 | 4 | EM | F | Situated beyond site boundary within residential garden unable to access base | 41 | 3.6 | B (i) |

| Tree No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|---------|-------------------------------|--------|--------------------------|--------------|-----------|-------------------|--|-----|------------|------------|
| T25 | Ash Fraxinus excelsior | 7 | 230 | 3 | EM | F | Outgrown hedgerow tree | 24 | 2.8 | C (i) |
| T26 | Ash Fraxinus excelsior | 5 | 200 200 | 2 | M | P | Outgrown hedgerow tree previously laid die back of single stem | 36 | 3.4 | C (i) |
| T27 | Ash Fraxinus excelsior | 7 | 200 200 100 100 | 4 | EM | F | Outgrown hedgerow tree multi stemmed from base | 45 | 3.8 | C (i) |
| T28 | Ash Fraxinus excelsior | 7 | 200 200 150 | 3 | EM | F | Outgrown hedgerow tree multi stemmed from base | 46 | 3.8 | C (i) |
| T29 | Field Maple Acer campestre | 5 | 280 | 3 | M | F | Outgrown hedgerow tree kink in main stem flail damage noted | 35 | 3.4 | C (i) |
| T30 | Ash Fraxinus excelsior | 7 | 310 250 100 | 4 | M | F | Outgrown hedgerow tree multi stemmed from base previously maintained as part of hedgerow | 76 | 4.9 | C (i) |
| T31 | Ash Fraxinus excelsior | 6 | 150 100 100 | 3 | EM | F | Outgrown hedgerow tree multi stemmed from base close spacing between trees | 19 | 2.5 | C (i) |
| T32 | Ash Fraxinus excelsior | 6 | 150 100 | 3 | EM | F | Outgrown hedgerow tree multi stemmed from base close spacing between trees | 15 | 2.2 | C (i) |

| Group No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|------------------------|---|--------|-------------|--------------|-----------|-------------------|---|-----|------------|------------|
| GROUPS OF TREES | | | | | | | | | | |
| G1 | Elder Sambucus nigra Hawthorn Crataegus monogyna | 6 | upto 250 | 2 | M | P | Outgrown hedgerow maintained along field edge to South several gaps | 28 | 3.0 | C (ii) |
| G2 | Elder Sambucus nigra Hawthorn Crataegus monogyna | 5 | upto 200 | 2 | M | P | Area of self seeded scrub dense ivy and undergrowth throughout limited arboricultural value | 18 | 2.4 | C (ii) |
| G3 | Ash Fraxinus excelsior Apple Malus domestica English Elm Ulmus procera Holly Ilex aquifolium Yew Taxus baccata | 8 | upto 250 | 3 | EM | P / F | Small buffer group on sire boundary predominantly elm dead elms noted likely Dutch elm disease limited future potential | 28 | 3.0 | C (ii) |
| G4 | Hawthorn Crataegus monogyna Privet Ligustrum ovalifolium | 6 | upto 150 | 1 | M | P | Outgrown hedgerow several gaps | 10 | 1.8 | C (ii) |
| G5 | Field Maple Acer campestre Hawthorn Crataegus monogyna English Elm Ulmus procera Holly Ilex aquifolium | 7 | upto 200 | 2 | SM / EM | P | Outgrown hedgerow along boundary with adjacent carriageway predominantly elm dead elms noted likely Dutch elm disease limited future potential | 18 | 2.4 | C (ii) |

| Group No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|----------|--|--------|-------------|--------------|-----------|-------------------|---|-----|------------|------------|
| G6 | Ash Fraxinus excelsior Hawthorn Crataegus monogyna Silver Birch Betula pendula Wild Cherry Prunus avium Apple Malus domestica Leyland Cypress Cupressocyparis leylandii | 7 | upto 150 | 2 | SM / EM | F | Tree group along boundary with adjoining properties situated beyond boundary unable to access stems gaps within group | 10 | 1.8 | C (ii) |

| Hedge No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|------------------|---|--------|------------|--------------|-----------|-------------------|---|-----|------------|------------|
| HEDGEROWS | | | | | | | | | | |
| H1 | Blackthorn Prunus spinosa Hawthorn Crataegus monogyna | 2 | avg 80 | 1 | EM | F | Maintained field boundary hedgerow wet ditch at base | 3 | 1.0 | C (ii) |
| H2 | Ash Fraxinus excelsior Hawthorn Crataegus monogyna | 1 | avg 80 | 0.5 | EM | F | Maintained boundary hedgerow limited screening value | 3 | 1.0 | C (ii) |
| H3 | Hornbeam Carpinus betulus Leyland Cypress Cupressocyparis leylandii | 3 | avg 120 | 1 | EM | F | Maintained boundary hedgerow along residential property moderate screening value | 7 | 1.4 | B (ii) |
| H4 | Blackthorn Prunus spinosa Field Maple Acer campestre Hawthorn Crataegus monogyna | 2 | avg 50 | 0.5 | Yng | F | Recently planted hedgerow along boundary with residential property | 1 | 0.6 | C (ii) |
| H5 | Leyland Cypress Cupressocyparis leylandii | 4 | avg 120 | 1 | EM | F | Maintained boundary hedgerow along residential property moderate screening value | 7 | 1.4 | B (ii) |
| H6 | Ash Fraxinus excelsior Hawthorn Crataegus monogyna Apple Malus domestica | 1.5 | avg 80 | 0.5 | EM | F | Maintained boundary hedgerow outgrown in sections | 3 | 1.0 | C (ii) |

| Hedge No | Species | Height | Stem Dia. | Crown Radius | Age Class | Overall Condition | Structural Condition | RPA | RPA Radius | BS5837 Cat |
|----------|--|--------|-------------|--------------|-----------|-------------------|---|-----|------------|------------|
| H7 | Blackthorn Prunus spinosa Hawthorn Crataegus monogyna | 1.5 | upto 120 | 1 | EM | P | Maintained field boundary hedgerow several gaps occasional outgrown trees | 7 | 1.4 | C (ii) |