



**LABURNUM GROVE SCHOOL,  
BOGNOR REGIS,  
WEST SUSSEX**

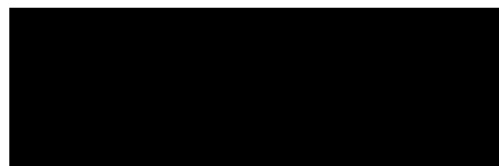
**TREE SURVEY REPORT**

4th January 2013

**Our Ref: JSL2086\_770**

**RPS**

Lakesbury House  
Hiltingbury House  
Chandlers Ford  
Hampshire  
SO53 5SS



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## QUALITY MANAGEMENT

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|------------------------------------|------------------------------------|
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| Date:                              | <b>4<sup>th</sup> January 2013</b> |
| Project Number/Document Reference: | <b>JSL2086_770</b>                 |
| Status                             | <b>For Planning</b>                |

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## EXECUTIVE SUMMARY

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- This report documents the findings of a Tree Survey of the existing trees within and immediately land adjacent to Laburnum Grove Junior School, Bognor Regis in West Sussex.
- The tree survey was undertaken by RPS on the 30<sup>th</sup> of November 2012. The site was revisited on the 15<sup>th</sup> of February 2013.
- This report has been produced in accordance with the BS 5837:2012 "Trees in Relation to Design, Demolition and Construction - Recommendations" In the main the surveyed trees relate to the school grounds and facilities are a mix of ornamental and native species. These provide interest and amenity and screen parts of the school from the road.
- A desktop investigation of <http://www.arun.gov.uk/>, the Arun District Council online mapping (21.12.12) revealed that there are no Tree Preservation Orders currently in place on the site and that the site is not within a conservation area. Trees covered by a Tree Preservation Order are protected under the Town and Country Planning Act 1990 (Trees Regulation 2012) and the local authority must be consulted and permission sought for any works that may affect them. Trees in Conservation Areas are similarly protected.
- Trees can offer many benefits, including the provision of visual amenity, softening or complementing the effect of the built urban environment, and adding maturity to new developments by making places more comfortable in tangible ways by contributing screening and shade, reducing wind speed and turbulence, intercepting snow and rainfall, and reducing glare.
- All retained trees within close proximity of any proposed development will require protection in accordance with BS5837: 2012.

- 1.1 The Tree Survey was commissioned by Hampshire County Council. The tree survey was undertaken by RPS on the 30<sup>th</sup> of November 2012, revisited on the 15<sup>th</sup> of February 2013. The weather conditions on both visits were clear and sunny.
- 1.2 This Tree Survey Report is a qualitative survey of the existing trees within and immediately adjacent to Laburnum Grove Junior School, Bognor Regis in West Sussex.
- 1.3 The purpose of the survey is to assess the landscape and visual amenity value of the existing trees and to identify the constraints associated with the trees prior to any potential redevelopment of the site. An assessment of the quality of the trees has been made, with reference to the categories and sub-categories listed within Table 1 - BS5837:2012<sup>1</sup>.
- 1.4 The Tree Survey identifies plant species and size. The survey also involved a qualitative assessment of the life stage, general (apparent) physical condition and estimated remaining contribution (in years) of each individual tree or, where more appropriate, a group of trees. A visual inspection of the general health and condition of the trees was completed from the ground, further more detailed surveys may be required to completely detail the comprehensive condition of certain trees.
- 1.5 The survey information was recorded on the attached schedule JSL2086\_750 (Appendix 1) and RPS drawings JSL2086\_700 (Appendix 2). In addition to presenting the amenity value of the trees the root protection area (RPA) is also defined.
- 1.6 The Tree Survey were carried out in general accordance with the requirements set out in BS 5837:2012 "Trees in Relation to Design, Demolition and Construction – Recommendations".

## **Scope of the Survey and Limitations**

- 1.7 The findings of this survey are not valid in adverse or unpredictable weather conditions or for any failure due to 'force majeure' or unpredictable events.

<sup>1</sup> *British Standards Institute, (2012); 'British Standard (BS5837) "Trees in Relation to Design, Demolition and Construction - Recommendations"*

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## 2 SITE LOCATION

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- 2.1 The survey area is the grounds of Laburnum Grove Junior School, Bognor Regis in West Sussex. The school grounds area is approximately 0.95 Ha in size and is centred on Ordnance Survey Grid Reference SU 930 006.
- 2.2 The site consists of the school grounds, facilities and related hardstanding, play and grass areas and trees. The school is located between South and North Bersted area to the north of Bognor Regis. Bognor Regis is a seaside resort town and civil parish in the Arun district of West Sussex, on the south coast of England.
- 2.3 The school is located in a largely residential area, effectively formed by the rear gardens of Corbishley Road, Orchard Way and Laburnum Grove and Greenwood Avenue.
- 2.4 The site is accessed from the north via Laburnum Grove.

- 3.1 The tree survey involved a visual inspection from the ground of individual specimens and groups of trees in order to record their amenity value, management recommendations and dimensions. Where observed, the general condition of all the trees has been noted. The survey does not constitute a full arboricultural condition assessment involving the detailed inspection of trees in relation to their structural condition, decay, and any other physical and pathogenic defects. Trees were not climbed or inspected below ground level and inaccessible trees will have best estimates made about the location, physical dimensions and characteristics.
- 3.2 Trees were not climbed or inspected below ground level and inaccessible trees will have best estimates made about the location, physical dimensions and characteristics.
- 3.3 The locations of the trees were based upon topographical survey produced by Hampshire County Council in November 2012, ref: 001.
- 3.4 The survey assesses individual trees and groups of trees for quality and benefits within the context of proposed development. The quality of each tree or group of trees has been recorded by allocating it to one of four categories as described in paragraph 3.6. These categories have been differentiated on the tree survey plan (JSL2086\_700) by colours.
- 3.5 The survey information was recorded on the attached schedule (Appendix 1) in general accordance with the guidance contained within Section 4 of BS 5837:2012 "Trees in Relation to Design, Demolition and Construction - Recommendations". These should be read in conjunction with RPS drawing JSL2086\_700 in appendix of this document.
- 3.6 The information recorded includes the following: -

|                                           |                                                                                                                                                                                                                                                             |                   |                  |             |          |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-------------|----------|
| <b>Tree Ref No:</b>                       | Sequential reference number of trees or groups of trees. Avenues, woodlands and hedgerows were also recorded on the tree survey plan. # - denotes inaccessible trees (best estimates are made about the location, physical dimensions and characteristics.) |                   |                  |             |          |
| <b>Species</b>                            | Species listed by common name, with scientific names (italic lettering).                                                                                                                                                                                    |                   |                  |             |          |
| <b>Height (m)</b>                         | Estimated height of canopy to nearest metre.                                                                                                                                                                                                                |                   |                  |             |          |
| <b>Branch Spread</b>                      | branch spread, taken as a minimum at the four cardinal points, to derive an accurate representation of the crown                                                                                                                                            |                   |                  |             |          |
| <b>Stem diameter @ 1.5m (m)</b>           | Estimated diameter of trunk at 1.5m above ground level in metres unless otherwise indicated, multi-stemmed trees being measured in accordance with Annex C: BS5837                                                                                          |                   |                  |             |          |
| <b>Existing height above ground level</b> | To inform on ground clearance, crown/stem ratio and shading the estimated height of the first significant branch and direction of growth and canopy above ground level.                                                                                     |                   |                  |             |          |
| <b>Stem No.</b>                           | Number of stems (if necessary) of individual tree.                                                                                                                                                                                                          |                   |                  |             |          |
| <b>Life Stage</b>                         | Expressed as:-                                                                                                                                                                                                                                              | Y (Young)         | OM (Over-mature) | V (Veteran) | D (Dead) |
|                                           |                                                                                                                                                                                                                                                             | SM (Semi-mature)  |                  |             |          |
|                                           |                                                                                                                                                                                                                                                             | EM (Early-mature) |                  |             |          |
|                                           |                                                                                                                                                                                                                                                             | M (Mature)        |                  |             |          |

|                                                             |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical Condition</b>                                   | Apparent condition expressed as the following categories, based upon a brief visual inspection from the ground only:-                                                                                                                     | Good<br>Fair<br>Poor<br>Dead                                                                                                                                                                                                                                                                                                             |
| <b>Comments / Management Recommendations</b>                | General observations, particularly of structural and/or physiological condition (e.g. the presence of any decay and physical defect), and/or preliminary management recommendations and potential for wildlife habitats (not exhaustive). |                                                                                                                                                                                                                                                                                                                                          |
| <b>Estimated remaining contribution (years)</b>             | Estimated remaining contribution, in years (<10, 10+,20+,40+)                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          |
| <b>Tree Quality Assessment Value: <u>Category</u></b>       | Criteria grading with regards to Table 1: BS 5837:2012, expressed as:-                                                                                                                                                                    | <b>A</b> (Trees/Vegetation of high quality and value)<br><b>B</b> (Vegetation of moderate quality and value)<br><b>C</b> (Trees/Vegetation of low quality and value)<br><b>U*</b> (Those 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) |
|                                                             | * Category U trees can have existing or potential conservation value which might be desirable to preserve.                                                                                                                                |                                                                                                                                                                                                                                                                                                                                          |
| <b>Tree Quality Assessment Value: <u>Sub - Category</u></b> | Criteria grading with regards to Table 1: BS 5837:2012, expressed as:-                                                                                                                                                                    | <b>1</b> (Trees with mainly <i>arboricultural</i> value)<br><b>2</b> (Trees with mainly <i>landscape</i> value)<br><b>3</b> (Trees with mainly <i>cultural / conservation</i> value)                                                                                                                                                     |

- 3.7 It is recommended that further arboricultural assessments be undertaken in order to assess the full health and safety of all trees which may possess structural or pathogenic conditions.

### Generally

- 4.1 The surveyed trees generally relate to the school grounds and facilities and consist of a mix of ornamental and native species. These provide interest and amenity and screen parts of the school from the road.
- 4.2 In the main the vegetation on the site appears to be in fair general health.
- 4.3 The trees and tree groups identified with moderate / high amenity value should, where possible, be integrated into any proposed layout of the site's redevelopment.

### Surveyed Trees

- 4.4 The trees on site tend to be clustered in small groupings of mixed species, age-range and amenity value.
- 4.5 The playing fields to the south and east of the school facilities are partially bound by trees, most significantly G5 and G6, tree groups which have established to form a strong, albeit deciduous, buffer between the school playing fields and the housing to the south of the site. Similarly, G7 in the south east corner of the site form a strong visual presence and to the playing field. Collectively, the buffer groups have a moderately high amenity value, individually, in light of their condition the trees that make up these groups are of lower amenity value.
- 4.6 The nature area directly to the south of the school facilities consists of Hazel, Hawthorn (G3) with Birch, Rowan and Ash trees. These are informally established and provide a partial screen to the residential housing beyond.
- 4.7 A number of trees are located in close vicinity of the playgrounds and buildings. T30, a Poplar tree is, at 13m, of some stature but has an easterly bias, is damaged at the foot of the bole and is late to over-mature in age structure. Two Birch T33 and T34 are likewise over mature and established within concrete pavers strictly relate to the current infrastructure. Accordingly, these tree have a limited useful long-term life.
- 4.8 On the north-side of the school facilities along Laburnum Road T1 to T6 and T9, T10 and G1 consist of a mix of early- mature deciduous species. These provide definition but are generally too small or in too poor a condition to make any notable green addition to the wider streetscape.

### Planning Considerations

- 4.9 There are a number of trees that were identified with limited amenity value and some have a limited useful life expectancy. New tree planting opportunities should be considered as part of any potential redevelopment, this will help to broaden the age diversity of the tree cover within the area. Sufficient space should be provided for species with significant stature to grow out into maturity.
- 4.10 A desktop investigation of <http://www.arun.gov.uk/>, the Arun District Council online mapping (21.12.12) revealed that there are *no* Tree Preservation Orders currently in place on the site and

that the site is not within a conservation area. Trees covered by a Tree Preservation Order are protected under the Town and Country Planning Act 1990 (Trees Regulation 2012) and the local authority must be consulted and permission sought for any works that may affect them. Trees in Conservation Areas are similarly protected.

- 4.11 Under the UK planning system, local authorities have a statutory duty to consider the protection and planting of trees when granting planning permission for proposed development. The potential effect of development of trees, whether statutorily protected (e.g. by a tree preservation order or by their inclusion within a conservation area) or not, is a material consideration that is taken into account in dealing with planning applications.
- 4.12 Trees can offer many benefits, including the provision of visual amenity, softening or complementing the effect of the built environment, and adding maturity to new developments by making places more comfortable in tangible ways by contributing screening and shade, reducing wind speed and turbulence, intercepting snow and rainfall, and reducing glare.
- 4.13 Particular care is needed regarding the retention of large, mature trees which become enclosed within the new development. Where such trees are retained, adequate space should be allowed for their long-term physical retention and future maintenance.
- 4.14 Trees may have the potential to provide valuable habitat for significant and/or protected species. It is recommended that consideration be given to the requirement for ecological surveys.
- 4.15 Some species of Ash (*Fraxinus* sp.) maybe susceptible to Ash Dieback. Should any indications of this disease become present on Ash trees within this site further advice should be sought from an arboriculturalist and / or the Forestry Commission (see <http://www.forestry.gov.uk/chalara>) and also refer to: <http://www.defra.gov.uk/publications /2012/12/ 06/pb13843-chalara-control-plan/>)

#### **Design and Site Layout Considerations**

- 4.16 A tree constraints plan defines the Root Protection Area (RPA) for each tree shown as a circle, this area maybe adjusted should physical constraints or topographical features limit root activity in a particular area, however the total area should remain the same. Prior to any adjustment of the trees RPA zones the changes should be assessed by an arboriculturalist. During any site planning exercises the current and future growth potential of the trees should be considered.
- 4.17 The RPA for single stem trees broadly equates to a radius 12 times the stem diameter of the tree at 1.5m above ground level or the extent of canopy spread, which ever is the greater. For multi-stemmed, low branching trees or those with trunks with an irregular girth the point of stem diameter measurement is adjusted in consideration of these factors and in accordance with the illustrations in BS5837:2012 (Annex C).
- 4.18 The RPA should become an exclusion zone during construction works and for any development. It should be fenced-off and protected in accordance with BS5837:2012. The canopy is likewise susceptible to damage during construction work and requires similar protection.
- 4.19 No activities that result in excavations, changes in level or soil compaction should take place within the RPA of any retained trees, especially older mature trees. This would include the storage of materials, any construction work, trafficking by vehicles or even excessive trafficking by pedestrians.

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- 4.20 If some form of construction has to take place within the RPA then certain measures need to be adopted to avoid disturbance or damage to the roots and to maintain moisture infiltration and gaseous diffusion into the soil.
- 4.21 Services likewise should be routed outside the existing or potential root zone of trees. Where it is unavoidable, then certain measures should be employed to avoid damage to the trees larger roots.
- 4.22 The location and siting of new facilities near trees should consider the potential impact on and conflict with both tree roots and canopy. This should take into account the ultimate size of existing young and middle-aged trees at maturity. Conversely the impact of the tree on the activities should also be considered with regard to obstruction, shading, leaf fall and root action. These are problems that can be managed provided sufficient space is allowed for.
- 4.23 New tree planting opportunities should be included as part of any redevelopment proposals, these designs should allow sufficient space for the ultimate height and crown spread of the trees at maturity.

#### **Trees and Management of Health and Safety**

- 4.24 It is recommended that a programme of periodic arboricultural assessments be undertaken in order to regularly assess the full health and safety of all trees both in full leaf and bare stemmed. The assessments should prioritize areas based on levels of access and presence of target (i.e. exposure of people to hazard) and accord with arboricultural advice, taking account of relevant factors (where known) that affect safety such as the age class, condition, size and species of the trees.

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# APPENDIX 1

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Tree Survey Schedules JSL2086\_750\_A

# vey schedule

abumum C

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: CC

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |     |     |     | Stem diameter        | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                                                                              | Estimated remaining contribution (years) | Tree Quality Category (BS5837) |
|------------------|-----|-----|-----|----------------------|-----------------|-------------------------------|------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|
| N                | E   | S   | W   |                      |                 |                               |            |                                      |                                                                                                                                                                |                                          |                                |
| .5               | 4.5 | 4.5 | 4.5 | 0.28<br>0.27<br>0.24 | 3               | 4                             | M          | Fair                                 | Multi-trunk divides at 0.8m. Potentially weak union, included wood.                                                                                            | +15                                      | C2                             |
| .0               | 3.5 | 3.5 | 3.5 | 0.22                 | 1               | 2                             | EM         | Poor                                 | Damage to the bole and extensive bark splitting. Vigorous to the tips, none the less. Pseudomonas syringae pv. Aesculi victim.                                 | -10                                      | C2                             |
| .0               | 1.0 | 1.0 | 1.0 | 0.08<br>0.12         | 2               | -                             | Y          | Poor                                 | Suckering, poor form.                                                                                                                                          | +10                                      | C2                             |
| .0               | 2.0 | 2.0 | 1.5 | 0.18                 | 1               | 1                             | Y          | Poor/Fair                            | Poor form, damage to bole and dead wood.                                                                                                                       | +10                                      | C2                             |
| .5               | 4.5 | 4.5 | 4.5 | 0.29                 | 1               | 2.5                           | EM         | Good                                 | Typically vigorous, slight northern bias to bole.                                                                                                              | +20                                      | C2                             |
| .0               | 2.0 | 2.0 | 2.0 | 0.27                 | 1               | 2.5                           | EM         | Fair/Poor                            | Dead wood throughout, strong apical growth.                                                                                                                    | +15                                      | C2                             |
| .5               | 7.0 | 8.0 | 7.0 | 0.45                 | 1               | 2.5                           | EM/M       | Good                                 | Wide spreading habit. Minor girdling roots at base.                                                                                                            | +25                                      | B2                             |
| .0               | 1.0 | 1.0 | 1.0 | 0.11                 | 1               | 2.5                           | EM         | Fair                                 | Suppressed in conflict with T7.                                                                                                                                | +25                                      | C2                             |
| .0               | 3.0 | 4.0 | 3.0 | 0.25                 | 1               | 0.25                          | EM         | Good                                 | Vigorous, strong growth.                                                                                                                                       | +25                                      | C2                             |
| .0               | 5.0 | 5.0 | 5.0 | 0.34                 | 1               | 2                             | EM         | Fair/Poor                            | Cankorous oozing on cut ends. Crossing branches and dead wood in crown.                                                                                        | +20                                      | C2                             |
| .0               | 9.0 | 7.0 | 1.0 | 0.62                 | 1               | 5                             | M          | Fair/Good                            | Tree has an eastern bias with branches practically absent on the western side, minor dead wood. Strong visual skyline presence set 3m above play ground datum. | +35                                      | A2                             |
| .5               | 3.5 | 3.5 | 3.5 | 0.32                 | 1               | 3                             | EM         | Fair/Good                            | Suckering at base and minor damage to base.                                                                                                                    | +20                                      | B2                             |
| .5               | 5.5 | 5.5 | 5.5 | 0.26                 | 1               | 2                             | EM         | Good                                 | Set within fenced area, in good general condition.                                                                                                             | +15                                      | C2                             |
| .0               | 3.0 | 2.0 | 3.0 | 0.33                 | 1               | 2                             | EM         | Fair                                 | Damage to bole. Dead wood.                                                                                                                                     | +15                                      | C2                             |

Note: This survey is based on a brief visual inspection from the ground.  
It is not intended as a full arboricultural inspection.  
# - Indicates estimated / offsite tree

Tree survey schedule  
Page 1 of 6

# vey schedule

aburnum Grove

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: C

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |     |     |     | Stem diameter | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                                                                      | Estimated remaining contribution (years) | Tree Quality Category (BS5837 ) |
|------------------|-----|-----|-----|---------------|-----------------|-------------------------------|------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------|
| N                | E   | S   | W   |               |                 |                               |            |                                      |                                                                                                                                                        |                                          |                                 |
| .0               | 4.0 | 4.0 | 4.0 | 0.36          | 1               | 2                             | OM         | Fair/Poor                            | Dead wood throughout. Weak fork unions with rot pockets.                                                                                               | +25                                      | C2                              |
| .0               | 4.0 | 3.0 | 4.0 | 0.28          | 1               | 1                             | EM         | Fair                                 | Damage to bole, possibly resultant from late crown lifting works.                                                                                      | +20                                      | C2                              |
| .0               | 5.0 | 3.0 | 4.0 | 0.31          | 1               | 1                             | EM         | Fair                                 | Crown lifting works have left large pruning scars which are beginning to heal but will leave a misshapen bole nonetheless. Typically vigorous to tips. | +20                                      | C2                              |
| .0               | 4.0 | 5.0 | 3.0 | 0.34          | 1               | 4.5                           | EM         | Fair                                 | In hedge line. Vigorous.                                                                                                                               | +20                                      | C2                              |
| .0               | 4.0 | 4.0 | 4.0 | 0.56          | 1               | 4.5                           | EM         | Fair                                 | Multi-trunk at 2m. Access prevented detailed inspection.                                                                                               | +20                                      | C2                              |
| .0               | 4.0 | 4.0 | 4.0 | 0.42          | 1               | 4                             | M/OM       | Fair                                 | Large mature specimen in hedge line.                                                                                                                   | +20                                      | C2                              |
| .0               | 4.0 | 2.0 | 2.0 | -             | -               | -                             | -          | Dead                                 | Moribund in hedge.                                                                                                                                     | -0                                       | R                               |
| .0               | 6.0 | 4.0 | 4.0 | 0.44          | 1               | 2.5                           | M          | Fair                                 | Strong easterly bias. Dead wood in crown. Roots on surface damaged.                                                                                    | +20                                      | C2                              |
| .0               | 3.0 | 3.0 | 2.0 | 0.34          | 1               | 2                             | OM         | Poor                                 | Poor condition, suppressed by T22 and a victim of Pseudomonas syringae pv. Aesculi. Bark and lower scaffold branches damaged.                          | +10                                      | C2                              |
| .5               | 2.5 | 2.5 | 2.5 | 0.16          | 1               | 2                             | EM         | Fair                                 | Typically vigorous.                                                                                                                                    | +25                                      | C2                              |
| .0               | 6.0 | 4.0 | 4.0 | 0.29          | 1               | 2.5                           | EM         | Fair                                 | Slight easterly bias to the bole, in grass.                                                                                                            | +25                                      | C2                              |
| .0               | 4.0 | 2.0 | 1.0 | 0.22          | 1               | 2.5                           | EM         | Fair                                 | One-sided.                                                                                                                                             | +25                                      | C2                              |
| .5               | 4.5 | 4.5 | 4.5 | 0.42          | 1               | 4                             | M          | Fair                                 | On edge of play area.                                                                                                                                  | +25                                      | C2                              |
| .0               | 1.0 | 1.0 | 1.0 | 0.12          | 1               | 2                             | EM         | Fair                                 | Insignificant.                                                                                                                                         | +15                                      | C2                              |

Note: This survey is based on a brief visual inspection from the ground. It is not intended as a full arboricultural inspection.  
# - Indicates estimated / offsite tree

Tree survey schedule  
Page 2 of 6

# vey schedule

abumum C

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: CC

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |     |     |     | Stem diameter                | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                               | Estimated remaining contribution (years) | Tree Quality Category (BS5837) |
|------------------|-----|-----|-----|------------------------------|-----------------|-------------------------------|------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|
| N                | E   | S   | W   |                              |                 |                               |            |                                      |                                                                                                                 |                                          |                                |
| 5                | 1.0 | 3.0 | 1.0 | 0.28                         | 1               | -                             | EM         | Poor                                 | Heavily suppressed by Poplar (T30).                                                                             | -15                                      | C2                             |
| 0                | 7.0 | 5.0 | 4.0 | 0.42                         | 1               | 2                             | WOM        | Fair                                 | Easterly bias with damage noted at foot of the bole. Dead wood. Girdling roots raised and damaged.              | +25                                      | C2                             |
| 5                | 5.5 | 5.5 | 5.5 | 0.31                         | 1               | 3                             | M          | Good                                 | Open wide crown. On edge of playground.                                                                         | +25                                      | C2                             |
| 5                | 2.5 | 2.0 | 2.5 | 0.22                         | 1               | 3                             | EM         | Good                                 | In good general condition.                                                                                      | +20                                      | C2                             |
| 0                | 5.0 | 5.0 | 5.0 | 0.58                         | 1               | 2.5                           | OM         | Fair                                 | Roots exposed at base. Tree bifurcates at 1.6m.                                                                 | +25                                      | C2                             |
| 0                | 5.0 | 5.0 | 5.0 | 0.34<br>0.32                 | 2               | 2.5                           | OM         | Fair                                 | Raised roots at base. Bifurcates at 1m.                                                                         | +25                                      | C2                             |
| 0                | 3.0 | 3.0 | 3.0 | 0.08<br>0.06<br>0.09<br>0.06 | 4               | -                             | M          | Fair                                 | Raised roots at base. Bifurcates at 1m.                                                                         | +25                                      | C3                             |
| 5                | 1.5 | 1.5 | 1.0 | 0.12                         | 1               | 2                             | EM         | Poor                                 | Suckers at base, established in amenity planting. Limited potential.                                            | +15                                      | C2                             |
| 0                | 1.5 | 1.0 | 1.5 | 0.10<br>0.08                 | 2               | 3                             | EM         | Fair                                 | Bifurcates at 0.75m, fork is included. In amenity planting.                                                     | +15                                      | C2                             |
| 5                | 3.0 | 2.5 | 3.0 | 0.26<br>0.14                 | 2.00            | -                             | EM         | Poor                                 | Multi-stemmed, low, has been toppled in the past.                                                               | +15                                      | C2                             |
| 0                | 3.0 | 4.0 | 3.0 | 0.2                          | 1.00            | 2.5                           | M          | Fair                                 | Crossing branches and dead wood in crown.                                                                       | +15                                      | C2                             |
| 0                | 4.0 | 5.0 | 4.5 | 0.6                          | 1.00            | 4.5                           | M          | Fair/Poor                            | Tree has been topped at 6.0m. Vigorous water shoots. Bole is covered with Ivy preventing a detailed inspection. | +25                                      | C2                             |
| 5                | 3.0 | 3.0 | 3.0 | 0.2                          | 1.00            | 1                             | M          | Fair/Poor                            | Extensive dead wood in crown with crossing branches. Ivy on bole.                                               | +15                                      | C2                             |
| 0                | 2.5 | 3.0 | 3.0 | 0.2                          | 1.00            | 1                             | EM         | Good                                 | Strong straight bole with good apical growth. Minor dead wood.                                                  | +25                                      | C2                             |

Note: This survey is based on a brief visual inspection from the ground.  
It is not intended as a full arboricultural inspection.  
# - Indicates estimated / offsite tree

Tree survey schedule  
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## vey schedule

abumum Grove

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: C

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |     |     |     | Stem diameter               | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                                                                                      | Estimated remaining contribution (years) | Tree Quality Category (BS5837 ) |
|------------------|-----|-----|-----|-----------------------------|-----------------|-------------------------------|------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------|
| N                | E   | S   | W   |                             |                 |                               |            |                                      |                                                                                                                                                                        |                                          |                                 |
| 1.5              | 0.5 | 0.5 | 2.0 | 0.05<br>0.07                | 2.00            | 1                             | Y          | Dead                                 | Severe lower dead wood and damage to base from strimming. Limited long-term potential.                                                                                 | -5                                       | U                               |
| 1.5              | 3.0 | 3.0 | 4.0 | 0.10<br>0.10<br>0.10        | 3.00            | 1.5                           | EM         | Poor                                 | Poor unions with included wood. Damage to lower bole.                                                                                                                  | +15                                      | C2                              |
| 1.5              | 5.0 | 5.0 | 5.0 | 0.3                         | 1.00            | 2                             | EM         | Fair                                 | Slight northerly lean. Dead wood in crown, otherwise typically vigorous for the species.                                                                               | +15                                      | C2                              |
| 1.5              | 4.5 | 4.5 | 4.5 | 0.2<br>0.21<br>0.14<br>0.08 | 4.00            | 1                             | M          | Poor                                 | Some damage to bole, loss of bark and pruning wounds. Dead wood in crown and crossing branches.                                                                        | +15                                      | C2                              |
| 1.0              | 4.0 | 5.5 | 4.0 | 0.22<br>0.21<br>0.14        | 3.00            | 1                             | M          | Poor                                 | Occluding damage to bole is unsightly. Odd twisting scaffold branch form not untypical of species, where the lesser limb crosses the greater in a southerly direction. | +15                                      | C2                              |

Note: This survey is based on a brief visual inspection from the ground.  
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# - Indicates estimated / offsite tree

Tree survey schedule  
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## vey schedule

aburnum

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: CC

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |     |     |     | Stem diameter        | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                                                                                                                                                                                                                                                                                                               | Estimated remaining contribution (years) | Tree Quality Category (BS5837) |
|------------------|-----|-----|-----|----------------------|-----------------|-------------------------------|------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------|
| N                | E   | S   | W   |                      |                 |                               |            |                                      |                                                                                                                                                                                                                                                                                                                                                                                                 |                                          |                                |
| 0.0              | 4.0 | 6.0 | 4.0 | 0.15<br>0.15<br>0.26 | 3.00            | 1.5                           | M          | Fair                                 | Damage to bark on branches. Divides low. Dead wood.                                                                                                                                                                                                                                                                                                                                             | +15                                      | C2                             |
| 1.0              | 5.0 | 5.0 | 5.0 | 0.3                  | 1.0             | 1.25                          | M          | Fair                                 | Minor dead wood. Typically vigorous. Damage to north facing bole at 1.45m occluding but unsightly nonetheless.                                                                                                                                                                                                                                                                                  | +25                                      | C2                             |
| 1.0              | 3.0 | 3.0 | 3.0 | 0.07<br>0.12<br>0.15 | 3.0             | 2.00                          | EM         | Fair                                 | Loss of bark to scaffold limbs. Unremarkable.                                                                                                                                                                                                                                                                                                                                                   | +15                                      | C2                             |
| 1.0              | 3.0 | 3.0 | 4.5 | 0.18<br>0.25<br>0.12 | 3.0             | 2.50                          | M          | Fair                                 | Crossing, included branches, dead wood in crown with damage, possible squirrel, to branch wood.                                                                                                                                                                                                                                                                                                 | +15                                      | C2                             |
| 1.5              | 5.0 | 5.0 | 5.0 | 0.3                  | 1.0             | 2.00                          | M          | Fair                                 | Typically vigorous.                                                                                                                                                                                                                                                                                                                                                                             | +15                                      | C2                             |
| 1.0              | 2.0 | 3.0 | 3.0 | 0.2                  | 1.00            | 3                             | M          | Poor                                 | Significant dead wood, damage to bole. Poor.                                                                                                                                                                                                                                                                                                                                                    | +10                                      | C2                             |
| 1.0              | 4.0 | 4.0 | 4.0 | 0.2                  | 1.00            | 4.5                           | M          | Fair                                 | Significant dead wood stubs. Strong apical growth typical of the species.                                                                                                                                                                                                                                                                                                                       | +25                                      | C2                             |
| As shown         |     |     |     | Ave 0.12             | -               | -                             | EM         | Poor                                 | Scrappy group on northern boundary.                                                                                                                                                                                                                                                                                                                                                             | +15                                      | C2                             |
| As shown         |     |     |     | Ave 0.12             | -               | -                             | EM         | Poor                                 | Scrappy group on northern boundary.                                                                                                                                                                                                                                                                                                                                                             | +15                                      | C2                             |
| As shown         |     |     |     | Ave .05              | -               | -                             | Y          | Fair                                 | Informal hedge, grown out to 5m. Stems roughly 0.5m centres apart.                                                                                                                                                                                                                                                                                                                              | +15                                      | C2                             |
| As shown         |     |     |     | Ave 0.32             | -               | -                             | EM         | Poor                                 | Bounding group in poor structural condition, weak unions. The willow has a strong eastward lean. Will provide some buffer to the site.                                                                                                                                                                                                                                                          | +20                                      | C2                             |
| -                | -   | -   | -   | Ave 0.42             | -               | -                             | EM         | Fair                                 | Group consisting three trees on the boundary. The northern-most has a fused                                                                                                                                                                                                                                                                                                                     | +25                                      | B2                             |
| -                | -   | -   | -   | Ave 0.38             | -               | -                             | EM         | Fair                                 | Group of trees on the southern boundary. These have established at roughly 4m centres and are in robust apparent condition, forming a strong albeit deciduous buffer between the school playing fields and the housing south of the site. Ivy has established on a number of trees. Structurally, in the main the trees are in good condition, a number of the Maple have enlarged fork unions. | +25                                      | B2                             |

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# - Indicates estimated / offsite tree

Tree survey schedule  
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## vey schedule

abumum Grove

Revision: .

Dwg Reference: JSL2086\_700

Surveyor: C

hedule Ref: JSL2086\_750 RevA

Status: .

Date of survey: 30/11/12 & 15/02/13

| Crown spread (m) |   |   |   | Stem diameter | Stem No. @ 1.5m | Height of crown clearance (m) | Life stage | Structural / Physiological condition | General observations / Management recommendations                                                                  | Estimated remaining contribution (years) | Tree Quality Category (BS5837 ) |
|------------------|---|---|---|---------------|-----------------|-------------------------------|------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------|
| N                | E | S | W |               |                 |                               |            |                                      |                                                                                                                    |                                          |                                 |
| As shown         |   |   |   | Ave 0.32      | -               | -                             | EM         | Fair                                 | Mixed native group. Minor bark damage and dead wood. Form a strong visual presence and enclose the playing fields. | +15                                      | B2                              |

Note: This survey is based on a brief visual inspection from the ground.  
It is not intended as a full arboricultural inspection.  
# - Indicates estimated / offsite tree

Tree survey schedule  
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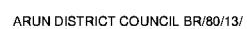


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## APPENDIX 2

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Tree Survey Drawing JSL2086\_700\_A



## APPENDIX 3

### Site Photographs



(1) The trees located at the north of the school bounding Laburnum Grove generally consists of trees with limited amenity value.



(2) The play areas fronting the Children's Centre is bound by a number semi-mature trees.



(3) Trees partially line the school playing fields containing various broadleaf trees and providing a landscape buffer reinforcing the sense of enclosure.



(4) G6 contains various broadleaf trees.



(5) T11 an Oak has a strong visual skyline presence.

