

ARBORICULTURAL ASSESSMENT & IMPACT REPORT

GREENFIELDS SWORDS LRD CO. DUBLIN

Project No.
TSWO003

Project name
Greenfields LRD

Date
01/07/26

Revision
A

Report Prepared by

Ciaran Keating
BSc Pl. Sci. & Ecol
H.N.D. Hort
AA Tech Cert Arb, PG Dip. Arb & Urban Forestry

E-mail: cmkhortandarb@gmail.com
Mobile: 087 1182343,
Drumone, Oldcastle, Co. Meath

CONTENTS

1. Client brief and Methodology	2
2. General description of trees	3
3. Impact of the proposed development	4
4. Tree protection	5
4. Limitations of survey	5
5. Relevant legislation	6
6. Terminology	7
7. References	8

Appendices

- i Tree condition analysis & preliminary recommendations
- ii Tree Survey & Constraints drawing TSWO003-DR-XX-CMK-ARB-002
- iii TSWO003-DR-B-CMK-ARB-002 Arboricultural Impact & Tree Protection drawing
- iii Arboricultural Method Statement

Summary

CMK Hort + Arb Ltd. were commissioned by Thornton O'Connor on behalf of Jackie Greene Construction Limited to provide an assessment of trees of the proposed development site at Greenfields, Swords. Co. Dublin. The purpose of this assessment being to provide data on the nature and quality of the trees on the site with a view to this information informing the design of the site. The field work was undertaken on the 29th of May 2025.

A total of 108 trees were assessed with the vast majority located within a screen planting on the western boundary of the site. Though not within the site the trees within the motorway screen planting to the east of the site were also considered in terms of their potential impact on the development of the site.

The proposed development of the site will necessitate the removal of approximately half of the trees within the screen planting on the western boundary. The remaining trees on this boundary will be retained as a group within an open space area. A well-developed individual willow (*Salix caprea*) will be retained within a more central open space area.

There will be no impact on the motorway screen planting to the east of the site. All trees identified for retention are to be protected during the construction period by a project arborist.

1. Client brief & Methodology

CMK Hort + Arb Ltd. were commissioned by Thornton O'Connor on behalf of Jackie Greene Construction Limited to provide an assessment of existing trees in support of a planning submission for a site at the Swords Business Park, Swords, Co. Dublin (image 1).

The purpose of this assessment is to provide data on the nature and quality of the trees on the site with a view to this information informing the design of the site.

The initial fieldwork was undertaken on the 29th of May 2025.

The initial descriptions of trees within sections 2 and Appendix i of this report provide an independent analysis of the trees without any consideration of plans for the future development of the site. The arboricultural impact of the proposed development is discussed within section 3 of this report.

The survey methodology, supporting drawings and documentation follow the recommendations contained within BS 5837 (2012). The analysis of the trees was undertaken using the VTA methodology as developed by Mattheck and Breloer (1994).

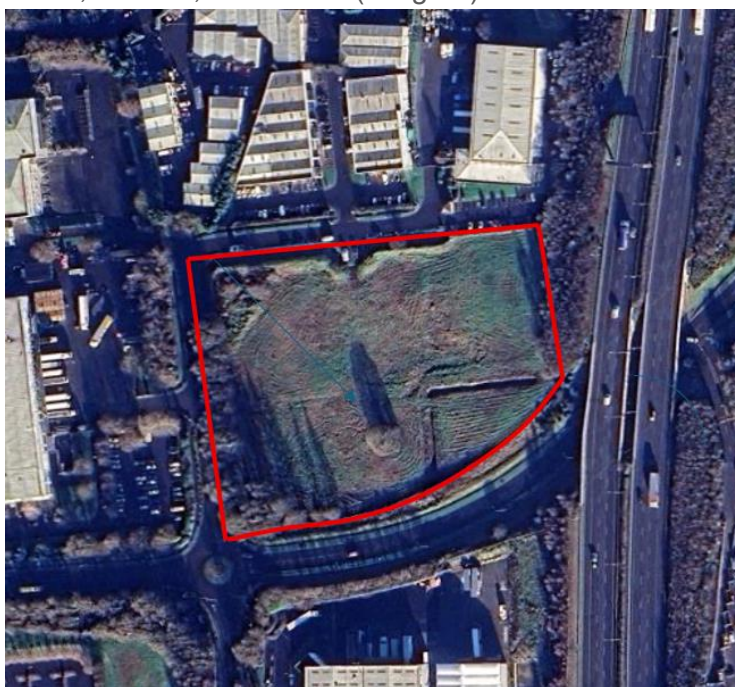


Image 1. Site location & boundary

Document / Drawing name	Number	Revision
Tree Survey & Constraints	TSWO003-DR-XX-CMK-ARB-001	-
Arboricultural Impact & Tree Protection	TSWO003-DR-B-CMK-ARB-002	B
Appendix i Tree Schedule	TSWO003-TS-A-CMK-ARB	-
Appendix ii Arboricultural Method Statement	TSWO003-AMS-XX-CMK-ARB	-

Table 1. Drawings & Report Schedule

2. General description of trees

The site is a greenfield site to the west of the M1 motorway at the eastern edge of the Swords Business Park. The central section of the site contains one willow tree (*Salix caprea*) with the vast majority of the remaining trees forming a screen planting located on the eastern boundary with a link road servicing existing industrial units (image 2).

The trees within the screen planting are a mixture of species typically planted for this purpose and includes Italian alder (*Alnus cordata*), pedunculate oak (*Quercus robur*) and cherry (*Prunus avium*). More occasional self-seeded sycamore (*Acer pseudoplatanus*) are also included within the mix. Native shrubs such as elder (*Sambucus nigra*) and dog rose (*rosa canina*) which may have been in the original planting mix or self-seeded in the planting are scattered along the margins of the planting.

There has been minimal maintenance or management of the planting with the result that the planting is dominated by the alder with other species primarily forming the under-canopy. The shrub layer is mainly confined to the outer edges where sufficient light is available for growth.



Image 2. Screen planting viewed from link road.

Thinning which would have selected better specimens was not undertaken with the result that many of the trees are drawn up. Future management inputs will need to be mindful of the potential to expose weak specimens should trees be removed.

Fly tipping is a problem with a large amount of waste material dumped within the planting.

There is a line of motorway screen planting to the east of the site (image 3). This is separated from the site by a paladin fence. There is a degree of canopy overhang of the site and potential for tree roots to also extend into the site. No site investigations have been undertaken to date to determine potential root spread into the site. A buffer zone is shown on drawing TSWO003-DR-XX-CMK-ARB-001 to guide the design team.



Image 3. Motorway screen planting viewed from the site

3. Impact of the proposed development on trees

3.1 Project description

Jackie Greene Construction Limited intends to apply for permission for a mixed-use development that constitutes a 'Large-Scale Residential Development' (LRD) at a site of 1.98 Ha at Greenfields, Swords Business Park, Swords, Co. Dublin. The site is principally bound: to the north by an access road and ancillary car park to serve the commercial units in Swords Business Park; to the east by the M1 Motorway; to the south by Mantua Road; and to the west by the 'Total Produce PLC' warehouse. Permission is sought for a mixed-use development with a gross floor area of 31,053 sq m and principally comprised in 5 No. blocks (A–E), with heights ranging from 2 No. to 7 No. storeys. The proposed block heights are as follows: Block A is 6 No. to 7 No. storeys; Block B is 2 No. to 7 No. storeys; Block C is 2 No. to 7 No. storeys; Block D is 3 No. to 7 No. storeys; and Block E is 6 No. to 8 No. storeys. The development consists of: 288 No. residential apartments (68 No. 1-bed, 152 No. 2bed and 68 No. 3-bed); commercial unit (641 sq m); and creche (418 sq m) with outdoor play area (69 sq m). Permission is also sought for: internal road, cycle and footpath network; new multi-modal site entrance to the west; minor relocation of existing northern site entrance to the east; 134 No. car parking spaces, including 59 No. at-grade and 75 No. in an undercroft car park to the east of Block C; 10 No. motorcycle parking spaces; cycle parking; hard and soft landscaping, including public open space,

communal amenity space (at-grade, and as roof gardens atop the undercroft car park, Block D and Block E) and incidental open space; private amenity space as balconies and terraces facing all directions; public lighting; bin stores; plant rooms; 2 No. sub-stations; green roofs; rooftop plant, PV panels, telecommunications infrastructure and lift overruns; and all associated works above and below ground.

3.2 Impact of the proposed development

The impact on trees of the proposed development is shown on drawing TSWO003-DR-B-CMK-ARB-102, within table 1 and outlined for individual trees within Appendix i.

The development will necessitate the removal of approximately half of the screen planting from the western boundary of the site (image 2). There will be no impact on the motorway screen planting (image 3).

The nature of the screen planting on the western boundary is such that individual trees would be vulnerable to failure if isolated from the existing cover provided by neighbouring trees. The retention of trees is therefore concentrated on a robust group to the south of the western boundary planting. A high value willow within a more the central section of the site is to be retained and will provide a valuable landscape feature in this area.

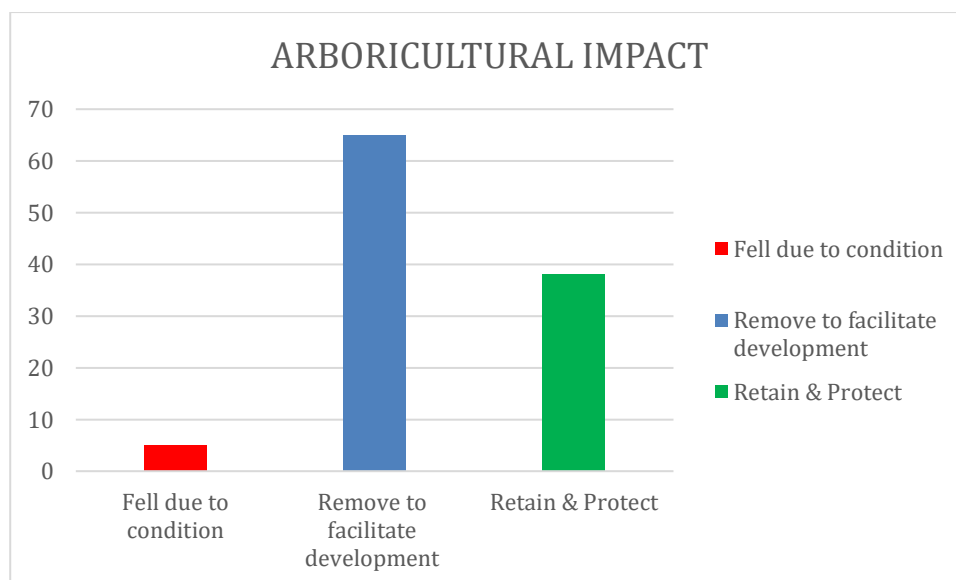


Table 1: Arboricultural Impact

4. Tree protection

Tree protection fencing is to be erected prior to the mobilisation of plant and site infrastructure and to be maintained by the main contractor and monitored by the project arborist for the duration of the project. The locations of tree protection fencing are shown on drawing TSWO003-DR-B-CMK-ARB-002.

Specific details for undertaking works within the vicinity of trees are contained within the Arboricultural Method Statement accompanying this report. All such works should be undertaken under the guidance of the project arborist.

5. Limitations of Survey

This survey should be regarded as a preliminary assessment of the trees and deals with the current condition as identified during this survey only. Every attempt was made to identify hazardous trees in this report; however, this survey was carried out from the ground and therefore cannot be held to have identified elements of decay, which may be hidden out of sight within the crown or beneath ivy or other obstructions. To counter this limitation in the survey process it is vital that during tree works any additional defects found by the climbing arborist are communicated to the consulting arborist to allow appropriate action to be taken.

The details within this survey are based on the condition of the trees during the survey period only. The findings in this survey cannot be held to be valid after any site disturbance, man-made or natural, which may have an adverse effect on any trees present.

6. Relevant legislation

There are no Tree Protection Orders (TPOs) on any of the trees within the site. Table 1 extracted from FCC Development Plan 2023-2029 outlines objectives related to trees in the county.

Policy Number	Content
Objective GI 9	Objective GI 9 Protect existing trees, hedgerows, townland boundaries and watercourses which are of amenity, historic or biodiversity value and ensure that proper provision is made for their protection and management in future development proposals in accordance with a Green Infrastructure and Landscape Strategy.
Objective GI 18	Objective GI 18 Ensure trees, hedgerows and other features which demarcate townland boundaries are preserved and incorporated into the design of developments.
Objective GI 19	Protect, preserve and ensure the effective management of trees and groups of trees.
Objective GI 20	Implement a scheme of tree and hedgerow protection measures, in compliance with British Standard 5837 (2012), Trees in Relation to Design, Demolition and Construction to Construction – Recommendations’ and in agreement with Fingal County Council, prior to commencement of development. The scheme of protection measures to be maintained in place until effective completion of all construction works.

Table 1. Extract from FCC Development Plan 2023-2029

Mature trees may contain bats. Bats are protected under Schedule 5 of the Wildlife Act 1976 and Schedule 1 of the European Communities (Natural Habitats) Regulations. There are no restrictions on removing trees (Forestry Act 2014) within an urban area however trees should not be felled when nests are present. A suitably qualified ecologist should be engaged to assess trees for nests prior to felling unless the trees are to be

removed outside of the bird nesting season (1st of March - 31st of August). 1997.
Professional advice from a licenced surveyor should be sought prior to any works commencing on trees.

7. Terminology

Tree categories

- A Trees of high quality and value due to their size, age, condition, historical/visual merit and/or conservation potential (a minimum of 40 years).
 - A1 Mainly arboricultural values. Particularly good examples of species, essential components of groups or of formal or semi-formal arboricultural features.
 - A2 Mainly landscape values. Trees, groups or woodlands which provide a definite screening or softening effects to the locality in relation to views into or out of site, or those of particular visual importance.
 - A3 Mainly cultural values, including conservation. Trees, groups or woodlands of significant conservation, historical, comparative or other value (e.g. veteran trees or wood-pasture).
- B Trees of moderate quality and value (a minimum of 20 years).
 - B1 Mainly arboricultural values. Trees that might be included in high categories but are downgraded because of impaired condition (e.g. presence of remedial defects including unsympathetic past management and minor storm damage).
 - B2 Mainly landscape values. Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal features (e.g. trees of moderate quality within an avenue that includes better A category specimens) or trees situated internally to the site, therefore individually having little visual impact on the wider locality.
 - B3 Mainly cultural values including conservation. Trees with clearly identifiable conservation or other cultural benefits.
- C Trees of low quality and value (a minimum of 10 years).
 - C1 Not qualifying in higher categories.
 - C2 Trees present in groups or woodlands but without conferring on them greater landscape value and/or trees offering low or only temporary screening benefit.
 - C3 Trees with very limited conservation or other cultural benefits.
- U Trees in such condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management. Trees that are dead, dying or showing immediate and irreversible decline.

Comments: Refers to the tree's condition and suitability for the site.

Terminology cont.

Common name: Most widely used non-botanical name.

Co-dominant: Two branches assuming the role of leading shoots. When growing close together may form a weak attachment (included bark) at their point of contact. Trees with this defect may be in danger of splitting at this weak attachment.

Crown Spread: Measured in meters north, south, east and west.

Decay fungi: Refers to those species of fungi which degrade living wood and which may, depending on the degree of degradation, render the tree structurally unsound.

Defects: Refers to cracks, storm damage and any other damage mechanical or biological.

Diameter: Diameter of the trunk (millimetres) at 1.5m. M.S. after the measurement refers to the tree being multi-stemmed.

Genus & Species: Refers to the botanical names for the tree.

Height: Measured in meters.

Monitor: Refers to trees which need to be re-surveyed on a yearly basis to assess their condition. This timescale may be sooner where works or adverse weather conditions have impacted negatively on the trees.

Overhaul: A reference to standard tree surgery work which consists of the removal of deadwood, crossing branches and balancing where appropriate.

Recommendations: Indicates surgery work necessary for the retention or, where necessary, removal of the tree.

Tree No. Refers to numbered tag fixed to tree during survey.

8. References

BS 5837 (2012). Trees in Relation to Design Demolition and Construction

Mattheck and Breloer (1994). The body language of trees

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
601	Italian Alder <i>Alnus cordata</i>	Mature	Good	Twin stemmed from base with a wide union present. Each stem forms an individual canopy. Minor light suppressed deadwood present. No other visible defects	No action necessary	Remove to facilitate development	B2	40	660	12	4,6,5,6
602	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	Bark damage from stake at 1m to south. Not significant at present but long term potential reduced as a result. Very strong ivy growth up trunk obscuring view for assessment with canopy suppressed toward south due to competition from neighbouring trees.	No action necessary	Remove to facilitate development	C2	20-30	250	9	4,2,0,5,2,5
603	Cherry <i>Prunus avium</i>	Early Mature	Very Poor	In a state of advanced decline due to competition from neighbouring trees.	Fell	Fell due to condition	U	0	130	4	0,5,0,5,0,5,3
604	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	A relatively well developed specimen with canopy suppressed toward west due to competition from neighbouring trees. Very strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	350	10	5,5,3,1
605	Cherry <i>Prunus avium</i>	Early Mature	Very Poor	In a state of advanced decline.	Fell	Fell due to condition	U	0	150	5	1,4,1,0,5
606	Pedunculate oak <i>Quercus robur</i>	Early Mature	Fair	A sub dominant specimen canopy with an extreme orientation toward west. Could be considered for removal in favour of upgrading shrub layer.	Consider for removal	Remove to facilitate development	B2	10-15	220	8	1,0,5,1,5
607	Cherry <i>Prunus avium</i>	Mature	Good	A tall slender specimen with very strong ivy growth up trunk obscuring view for assessment. Trunk with a slight lean toward north. Upper canopy mainly oriented toward west.	Cut ivy	Remove to facilitate development	B2	10-15	360	14	1,0,5,1,5
608	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	A relatively well developed specimen. Upper canopy mainly oriented toward north.	No action necessary	Remove to facilitate development	B2	30-40	370	17	6,2,1,0,5
609	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	A well developed specimen with canopy suppressed toward south and west due to competition from neighbouring trees. Very strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	470	17	6,5,2,1
610	Italian Alder <i>Alnus cordata</i>	Mature	Good	A tall slender specimen with strong ivy growth up trunk. Upper canopy relatively well developed with no visible defects.	No action necessary	Remove to facilitate development	B2	20-30	400	17	3,3,3,3
611	Italian Alder <i>Alnus cordata</i>	Early Mature	Good	Very strong ivy growth up trunk obscuring view for assessment. Canopy mainly oriented toward west due to competition from neighbouring trees.	No action necessary	Remove to facilitate development	B2	20-30	320	16	1,0,5,1,6
612	Italian Alder <i>Alnus cordata</i>	Mature	Good	A tall slender specimen with strong ivy growth up trunk. Upper canopy relatively well developed with no visible defects.	No action necessary	Remove to facilitate development	B2	20-30	350	18	3,3,3,3
613	Italian Alder <i>Alnus cordata</i>	Mature	Good	Very strong ivy growth up trunk. Upper canopy relatively well developed though suppressed toward west due to competition from neighbouring trees.	Cut ivy	Remove to facilitate development	B2	20-30	370	18	3,5,3,1
614	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk lean and canopy orientation toward west. Very strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	380	18	2,1,2,6

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
615	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant specimen. Strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	450	18	2,2,2,5
616	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant specimen. Canopy suppressed toward west. Very strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	450	18	3,5,3,1
617	Pedunculate oak <i>Quercus robur</i>	Young	Fair	A tall slender sub dominant specimen limited overall canopy cover. Becoming swamped in ivy.	Cut ivy	Remove to facilitate development	C2	10-15	220	15	1,2,1,0,5
618	Cherry <i>Prunus avium</i>	Young	Very Poor	In a state of decline	Fell	Fell due to condition	U	0	180	4.5	0.05,0.5,0.5,0.5
619	Pedunculate oak <i>Quercus robur</i>	Young	Good	A sub dominant specimen forming an element of under canopy. Very strong ivy growth with potential to swamp tree. Relatively well developed canopy.	Cut ivy	Remove to facilitate development	B2	30-40	180	7	0.5,0.5,0.5,0.5
620	Italian Alder <i>Alnus cordata</i>	Young	Fair	A sub dominant poorly developed specimen. Limited canopy cover. Could be considered for removal in favour of remaining trees.	Consider for removal	Fell due to condition	U	<10	150	7	0.5,0.5,0.5,0.5
621	Sycamore <i>Acer pseudoplatanus</i>	Mature	Good	Trunk co dominant from base with a tight union between stems. No evidence of structural weakness at union. Canopy mainly oriented toward east.	No action necessary	Remove to facilitate development	B2	30-40	750	17	2,6,2,1
622	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with canopy suppressed toward east. No visible defects	No action necessary	Remove to facilitate development	B2	30-40	370	17	4,1,4,7
623	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk co dominant from base with a tight union between stems. Upper canopy relatively well developed. Mainly oriented toward west.	No action necessary	Remove to facilitate development	B2	30-40	520	19	3,3,2,6
624	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with canopy suppressed toward west. No visible defects.	No action necessary	Remove to facilitate development	B2	30-40	420	18	3,4,3,1
625	Italian Alder <i>Alnus cordata</i>	Mature	Good	Strong ivy growth up trunk obscuring view for assessment. Upper canopy well developed but slightly suppressed toward west.	No action necessary	Remove to facilitate development	B2	30-40	450	19	3,5,3,1
626	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant. No visible defects	No action necessary	Remove to facilitate development	B2	30-40	320	20	2,3,4,4
627	Sycamore <i>Acer pseudoplatanus</i>	Young	Fair	A sub dominant specimen with a strong orientation toward east. Could be considered for removal in favour of more valuable neighbouring trees.	Consider for removal	Remove to facilitate development	C2	10	220	7	1,6,0.5,0.5
628	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with canopy suppressed toward north.	No action necessary	Remove to facilitate development	B2	30-40	300	19	1,3,4,6
629	Pedunculate oak <i>Quercus robur</i>	Young	Fair	Forming an element of under canopy with a strong canopy orientation toward east.	No action necessary	Remove to facilitate development	B2	20-30	220	8	1,6,0.5,0.5
630	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	A tall slender specimen. Strong ivy growth up trunk obscuring view for assessment.	Cut ivy	Remove to facilitate development	B2	20-30	250	18	2,3,2,1
631	Italian Alder <i>Alnus cordata</i>	Mature	Good	A relatively well developed specimen with canopy mainly oriented toward west.	No action necessary	Remove to facilitate development	B2	20-30	330	19	1,1,2,4
632	Cherry <i>Prunus avium</i>	Early Mature	Very Poor	Sub dominant with a very strong lean toward west.	Consider for removal	Remove to facilitate development	C2	10	200	4	0,0,0,4.5
633	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with no visible defects.	No action necessary	Remove to facilitate development	B2	30-40	380	19	4,4,3,4
634	Hazel <i>Corylus avellana</i>	Mature	Good	Forming an element of under canopy. No visible defects but will require periodic coppicing for future management	No action necessary	Remove to facilitate development	B2	30-40	350	5	3,3,3,2

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
635	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with canopy suppressed toward east. Trunk three stemmed from base. Wide unions between stems. Very strong ivy growth up trunk obscuring view for assessment.	Cut ivy	Remove to facilitate development	B2	30-40	410	18	1,1,2,5
636	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk co dominant from base with a wide union between stems. Upper canopy well developed with no visible defects.	No action necessary	Remove to facilitate development	B2	30-40	420	19	2,3,2,4
637	Italian Alder <i>Alnus cordata</i>	Young	Fair	A sub dominant specimen with a strong orientation toward east.	Consider for removal in favour of neighbouring trees	Remove to facilitate development	C2	10	140	7	1,5,0,0
638	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant specimen with no visible defects	No action necessary	Remove to facilitate development	B2	30-40	400	19	2,3,4,5,5
639	Italian Alder <i>Alnus cordata</i>	Mature	Good	Very strong ivy growth up trunk obscuring view for assessment. Upper canopy relatively well developed.	Cut ivy	Remove to facilitate development	B2	30-40	240	18	2,2,3,3
640	Field maple <i>Acer campestre</i>	Early Mature	Good	A relatively well developed specimen forming an element of under canopy. Strong ivy growth up trunk obscuring view for assessment.	Cut ivy	Remove to facilitate development	B2	20-30	250	6	3,3,3,4
641	Birch <i>Betula pendula</i>	Early Mature	Very Poor	A sub dominant specimen becoming swamped by ivy.	Fell	Fell due to condition	U	<10	220	5	0,5,0,5,0,5,0,5
642	Norway maple <i>Acer platanoides</i>	Early Mature	Good	Trunk co dominant from base with a tight union between stems. Canopy mainly oriented toward east.	No action necessary	Remove to facilitate development	B2	20-30	500	9	2,6,1,0,5
643	Field maple <i>Acer campestre</i>	Early Mature	Good	A sub dominant specimen forming an element of under canopy. Becoming swamped in ivy.	Cut ivy	Remove to facilitate development	B2	20-30	230	5	1,0,0,4
644	Italian Alder <i>Alnus cordata</i>	Early Mature	Good	A tall slender specimen with a slight lean toward north. Upper canopy vertical in orientation.	No action necessary	Remove to facilitate development	B2	20-30	320	19	3,3,3,3
645	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant specimen with no visible defects.	No action necessary	Remove to facilitate development	B2	30-40	450	20	4,3,3,5
646	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen. Trunk with a slight lean toward east. Upper canopy vertical in orientation.	No action necessary	Remove to facilitate development	B2	30-40	330	19	2,4,3,3
647	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed dominant specimen with no visible defects	No action necessary	Remove to facilitate development	B2	40	310	49	3,3,2,2
648	Italian Alder <i>Alnus cordata</i>	Mature	Good	A well developed specimen with no visible defects. Canopy mainly oriented toward west due to competition from neighbouring trees.	No action necessary	Remove to facilitate development	B2	30-40	350	19	2,1,2,4
649	Italian Alder <i>Alnus cordata</i>	Mature	Good	A relatively well developed specimen with canopy mainly oriented toward east. Strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	20-30	280	16	1,6,1,0,5
650	Italian Alder <i>Alnus cordata</i>	Mature	Good	A relatively well developed specimen with canopy mainly oriented toward east. Strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	440	18	2,2,1,4
651	Italian Alder <i>Alnus cordata</i>	Early Mature	Good	A tall slender relatively well developed specimen. Strong ivy growth up trunk obscuring view for assessment.	Cut ivy	Remove to facilitate development	B2	30-40	280	19	3,3,3,3
652	Italian Alder <i>Alnus cordata</i>	Early Mature	Good	A tall slender specimen. Canopy mainly oriented toward north. Strong ivy growth up trunk.	No action necessary	Remove to facilitate development	B2	30-40	220	19	3,1,0,5,0,5
653	Italian Alder <i>Alnus cordata</i>	Mature	Good	A tall slender specimen with canopy suppressed toward north. Strong ivy growth up trunk obscuring view for assessment.	No action necessary	Remove to facilitate development	B2	30-40	300	19	1,2,3,2
654	Italian Alder <i>Alnus cordata</i>	Mature	Good	A relatively well developed specimen with trunk and canopy lean toward west. Suitable for retention within current sheltered environment only.	No action necessary	Remove to facilitate development	B2	15-20	250	19	3,0,1,5

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
655	Italian Alder <i>Alnus cordata</i>	Mature	Good	A large dominant specimen with strong ivy growth up trunk obscuring view for assessment. Canopy mainly oriented toward north and east.	No action necessary	Remove to facilitate development	B2	30-40	540	19	5,5,2,1
656	Italian Alder <i>Alnus cordata</i>	Mature	Good	A large dominant specimen. Trunk co dominant from 0.5m with a wide union between stems. Very strong ivy growth up stems obscuring view for assessment creating a significant windsail.	Cut ivy	Remove to facilitate development	B2	30-40	800	20	5,6,3,2
657	Italian Alder <i>Alnus cordata</i>	Mature	Good	Very strong ivy growth up trunk obscuring view for assessment. Canopy mainly oriented toward west.	Cut ivy	Remove to facilitate development	B2	30-40	340	19	0,5,0,5,0,5,5
658	Italian Alder <i>Alnus cordata</i>	Mature	Good	A tall slender specimen with a relatively well developed canopy.	No action necessary	Remove to facilitate development	B2	30-40	280	19	1,1,1,3
659	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk kinked becoming vertical from 3m. Canopy mainly oriented toward west.	No action necessary	Remove to facilitate development	B2	30-40	260	15	1,1,0,5,5
660	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk co dominant from base with a tight union between stems. Unlikely to be significant within current sheltered environment. Very strong ivy growth up stems. Upper canopy mainly oriented toward west.	Cut ivy	Remove to facilitate development	B2	30-40	560	18	1,1,0,5,6
661	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	A tall slender relatively well developed specimen. Canopy mainly oriented toward east due to competition from neighbouring trees.	No action necessary	Remove to facilitate development	B2	30-40	260	15	1,5,0,5,0,5
663	Pedunculate oak <i>Quercus robur</i>	Early Mature	Fair	A sub dominant specimen with limited overall canopy cover.	No action necessary	Remove to facilitate development	C2	10-15	220	5	0,0,0,3
664	Birch <i>Betula pendula</i>	Mature	Good	A tall slender specimen forming an element of upper canopy within tree group. Very strong ivy growth up trunk obscuring view for assessment. Upper canopy relatively well developed with no visible defects.	Cut ivy	Retain & Protect	B2	20-30	250	19	2,2,2,3
665	Goat willow <i>Salix caprea</i>	Mature	Good	Multi stemmed from base. Situated on raised bank at roadside. Canopy is oriented over road to West. Deadwood branches present in lower canopy. Some downward hanging branches are half broken and will require removal. Strong ivy on stem.	Remove deadwood and branches hanging downward over path.	Retain & Protect	C2	40	500	12	5,3,5,6
666	Pedunculate oak <i>Quercus robur</i>	Mature	Good	Tall straight stem, canopy oriented to east. Strong ivy cover on stem and in canopy. Fence tacked to stem.	Remove fence and ivy	Retain & Protect	B2	40	400	12	2,6,2,1
667	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	Tall straight stem with a high compact canopy. Strong ivy cover on stem and in canopy.	Cut ivy	Retain & Protect	C1	30-40	160	10	2,3,2,1
668	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated in raised bank. Strong ivy cover from base obscuring view for assessment. Canopy strongly oriented to East due to suppression from West by neighboring trees	Cut ivy	Retain & Protect	B2	40	480	10	2,6,2,0
669	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated on a raised bank. Area of dysfunctional bark on stem at base to East. Appears to be localized. Strong cover throughout stem and canopy. Tall compact canopy.	Cut ivy	Retain & Protect	B2	40	380	12	3,3,2,2
670	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated on raised bank at roadside. Strong ivy growth throughout tree. Minor lean towards roadside of stem. Canopy also oriented to west	Cut ivy	Retain & Protect	C1	40	420	10	4,1,4,5

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
671	Italian Alder <i>Alnus cordata</i>	Mature	Good	Stem is straight to 6m where becomes a shaped and bent towards northwest, in close contact with tree #671. Stem becomes upright in upper canopy around 8m. Very tall compact canopy. Strong ivy growth.	Cut ivy	Retain & Protect	C1	40	460	12	4,1,0,4
672	Italian Alder <i>Alnus cordata</i>	Mature	Good	Tall upright stem with a high compact canopy and strong ivy cover throughout	Cut ivy	Retain & Protect	B2	40	430	12	2,2,2,2
673	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated on raised bank. Strong ivy cover from base obscuring view for assessment. Canopy strongly oriented to West, over roadside due to suppression from neighboring trees	Cut ivy	Retain & Protect	B2	40	520	10	0,0,4,5
674	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated on a raised bank. Strong ivy cover from base obscuring view for assessment. Canopy strongly oriented to East due to suppression from West by neighboring trees	Cut ivy	Retain & Protect	B2	40	380	10	2,5,2,0
675	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated on raised bank. Strong ivy cover from base obscuring view for assessment. Canopy mainly oriented to East.	Cut ivy	Retain & Protect	B2	40	500	12	3,6,3,2
676	Cherry <i>Prunus avium</i>	Early Mature	Fair	Straight stem to 2m, with strong scaffold limb towards roadside which contains most of canopy. No other visible defects	No action necessary	Retain & Protect	C1	20-30	200	3	1,0,0,7
677	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	Tall straight stem with strong ivy cover and compact canopy	Cut ivy	Retain & Protect	C1	30-40	240	10	1,3,1,1
678	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	Tall straight stem with strong ivy cover and compact canopy	Cut ivy	Retain & Protect	C1	30-40	200	10	1,1,1,2
679	Pedunculate oak <i>Quercus robur</i>	Early Mature	Good	Tall straight stem with strong ivy cover and compact canopy	Cut ivy	Retain & Protect	B2	30-40	220	10	1,3,1,1
680	Field maple <i>Acer campestre</i>	Mature	Good	Base situated on raised bank. Fence tacked to base. Moderate ivy growth. No visible defects	Remove fence	Retain & Protect	B2	40	360	10	3,6,3,6
681	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated in raised bank. Canopy oriented over roadside. Very strong ivy cover on stem no major defects visible	Cut ivy	Retain & Protect	B2	40	420	12	2,1,2,5
682	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated in raised bank. Tall compact canopy. Very strong ivy cover on stem no major defects visible	Cut ivy	Retain & Protect	B2	40	260	12	2,1,2,1
683	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated in raised bank. Informal fence tacked to base. Very strong ivy cover on stem no major defects visible	Cut ivy	Retain & Protect	B2	40	300	12	1,3,2,1
684	Italian Alder <i>Alnus cordata</i>	Mature	Good	Situated in raised bank. Informal fence tacked to basement ivy cover on stem no major defects visible	Remove fence	Retain & Protect	B2	40	480	12	3,5,2,1
685	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with strong ivy growth on stem and no other visible defects	No action necessary	Remove to facilitate development	B2	40	490	12	5,4,3,5
686	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with strong ivy growth on stem and no other visible defects	No action necessary	Remove to facilitate development	B2	40	510	12	4,5,4,3
687	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with strong ivy growth on stem and no other visible defects	No action necessary	Retain & Protect	B2	40	360	12	4,2,2,4
688	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single straight stem dominant canopy in group. Ivy cover on stem and no major visible defects	No action necessary	Retain & Protect	B2	40	360	12	2,3,4,2
689	Italian Alder <i>Alnus cordata</i>	Mature	Good	Cluster of three straight stemmed trees with strong ivy growth on stem and no other visible defects	No action necessary	Retain & Protect	B2	40	600	12	3,4,5,4

TSW0003

APPENDIX i

REV A

CMK HORT & ARB LTD

Tag Number	Species Name	Age Class	Vigour	Comments	Preliminary Recommendations	Final recommendations	Category	Longterm Potential	DBH (mm)	Height (m)	Spread (m) N, E, S, W
690	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with a tall compact canopy due to competition in group. Ivy growth on stem. No visible defects	No action necessary	Retain & Protect	B2	40	240	12	2,3,3,1
691	Italian Alder <i>Alnus cordata</i>	Mature	Fair	Straight stems to 3m where central leader previously died and lateral became dominant stem resulting in severe S shape here. Tall and compact canopy due to competition from surrounding trees. Unstable tree	No action necessary	Retain & Protect	U	<10	220	12	1,2,2,1
692	Sycamore <i>Acer pseudoplatanus</i>	Early Mature	Good	A well developed specimen with no visible defects. Canopy suppressed toward west.	No action necessary	Retain & Protect	B2	30-40	250	18	1,5,1,0.5
692	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight single stem with ivy cover, compact canopy and no major defects	No action necessary	Retain & Protect	B2	40	220	12	1,1,2,2
693	Italian Alder <i>Alnus cordata</i>	Mature	Good	Triple stemmed from base with canopies oriented south over road. Ivy present on stems. No major visible defects	No action necessary	Retain & Protect	B2	40	500	12	1,2,5,2
694	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single straight stem with canopy oriented south towards road. Lower limbs in contact with boundary fence. No visible defects	Prune away from fence	Retain & Protect	B2	40	400	12	2,4,6,2
695	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single stem with slight lean towards North. Canopy oriented north. Ivy cover on stem and no major visible defects	No action necessary	Retain & Protect	B2	40	320	12	4,3,2,3
696	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single stem. Ivy cover on stem and no major visible defects	No action necessary	Retain & Protect	B2	40	380	12	3,4,2,2
697	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single stem. Minor curve in mid stem. Not likely significant. Ivy cover on stem and no major visible defects	No action necessary	Retain & Protect	B2	40	300	12	2,2,3,2
698	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single straight stem with moderate ivy cover and no visible defects	No action necessary	Retain & Protect	B2	40	300	12	2,3,3,2
699	Italian Alder <i>Alnus cordata</i>	Mature	Good	Twin straight stems with moderate ivy cover and no visible defects	No action necessary	Retain & Protect	B2	40	500	12	3,4,3,1
700	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single straight stem with canopy oriented to south West. No major visible defects	No action necessary	Retain & Protect	B2	40	240	12	1,3,3,2
701	Italian Alder <i>Alnus cordata</i>	Mature	Good	Single straight stem with canopy oriented to south West. No major visible defects	No action necessary	Retain & Protect	B2	40	260	12	2,3,3,1
702	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with no visible defects	No action necessary	Remove to facilitate development	B2	40	520	12	5,5,4,4
703	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with no visible defects	No action necessary	Remove to facilitate development	B2	40	480	12	4,4,3,4
704	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with no visible defects	No action necessary	Remove to facilitate development	B2	40	340	10	3,4,3,4
705	Italian Alder <i>Alnus cordata</i>	Mature	Good	Straight stemmed tree with no visible defects	No action necessary	Remove to facilitate development	B2	40	350	9	3,2,3,2
706	Goat willow <i>Salix caprea</i>	Mature	Good	Multi stemmed from base. Large Globulous form. Minor ivy growth and no major visible defects	No action necessary	Retain & Protect	B2	>40	800	12	11,9,10,9
708	Sycamore <i>Acer pseudoplatanus</i>	Mature	Good	Multistemed from base. Likely a self seeded tree. Situated on bank (to industrial estate/roadside) Large woody roots evident at base. Minor ivy growth present. Chestnut scale is present. Tree has a round Globulous canopy.	No action necessary	Remove to facilitate development	B2	40	720	10	5,4,4,5
709	Italian Alder <i>Alnus cordata</i>	Mature	Good	Trunk co dominant from base. Canopy well developed with no visible defects.	No action necessary	Remove to facilitate development	B2	30-40	350	16	5,4,4,4