

BS5837:2012 Tree Schedule

Client Name: Rochdale Borough Council
Site: Middleton Old Cemetery, Church Brow, Middleton, Manchester

Consultant: M.Nicklin
Survey Date: June 2025



Measurements		Age Class		Physiological Condition		Structural Condition	
Height	All tree heights have been assessed using a clinometer. Tree heights are given in metres.	Young	Establishing, good vigour, fast growth rates and strong apical dominance; < 1/3rd estimated life expectancy.	Good	Generally in good health typical of the species.	Good	Few minor risk features of little overall significance.
Stem Dia.	Diameter in millimetres (mm) in accordance with BS5837:2012 paragraph 4.6.1, Annex C.	Semi-Mature	Established specimen approaching 1/3 life expectancy.	Fair	Reasonable health with few risk features.	Fair	A significant risk feature or several small risk features.
Crown spread	Given as an average diameter or measured using a distometer. North (N), east (E), south (S) and west (W) provided.	Early-Mature	1/3 – 2/3 life expectancy, vigorous growth rate and increasing in height.	Poor	Trees that exhibit significant risk features which are irremediable or moribund tree.	Poor	Major risk feature present or many small risk features.
Crown Height	Height of ground clearance is given in metres. Estimate of the height of the first branch above ground level.	Mature	Over 2/3 life expectancy. Generally good vigour and achieving full height potential with crown still spreading.	Dead	Tree has died.	Collapsing	Feature has uprooted or the whole tree, or part of the tree has collapsed.
Species name	The tree species have been recorded with both common and scientific names.	Over-Mature	Declining or moribund trees of low vigour.	Abbreviations and Notes est - Estimated stem diameter av - Average stem diameter for multiple stems upto - Maximum stem diameter of a group erc - Estimated remaining contribution			
Tag no.	Where present, any metal tags attached to trees have been recorded.	Veteran	Exhibiting features of biological, cultural, or aesthetic value characteristic of species surviving beyond the typical age range.				

Root Protection Areas (RPA)

The below ground constraints are generally summarised as the root protection areas (RPA). The RPA is an area equivalent to a circle with a radius 12 times the diameter of the trees measured at 1.5 metres for single stemmed trees. For trees with more than one stem, one of two calculation methods should be used. In all cases, the stem diameter(s) should be measured in accordance with Annex C, and the RPA should be guided from Annex D of BS5837:2012. Both RPA radius in metres from the main stem and total area for the RPA as square metres.

An average stem diameter is provided for tree groups, wooded areas and hedges. Where veteran trees have been identified the RPA has been calculated in accordance with Natural England guidance i.e. 15x the stem diameter or 5m beyond the crown whichever is greater.

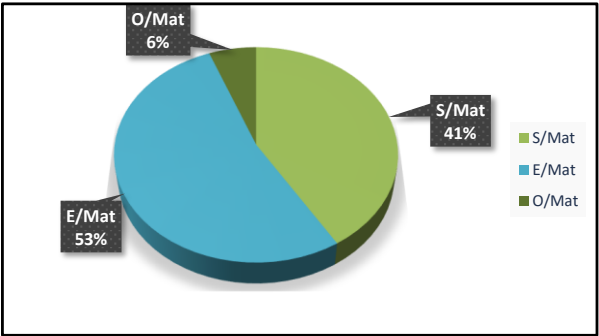
General Notes

Each tree was individually assessed and comments, where appropriate, were recorded for the condition of each tree's roots, main stem, and crown. The physiological condition has been recorded to provide an indication of the tree's general health and vitality. General comments have also been made where appropriate, with recommendations for tree work given, where applicable.

Each individual tree has been given an identification number. Metal tags have not been used for this survey as identification on-site does not require this. The tree numbers associated with each tree are cross referenced within the schedule and Tree Constraints Plan/s. Small trees with a stem diameter less than 75mm were not surveyed as they would either be easily replaced or relocated.

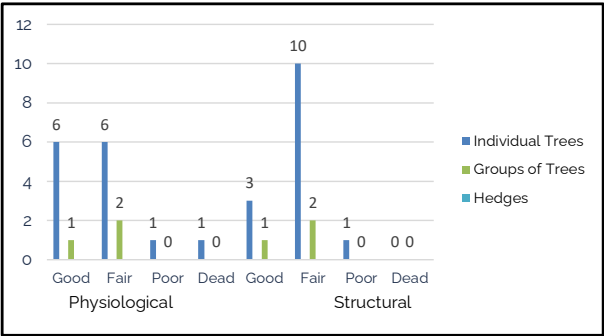


Age Distribution of the Tree Population



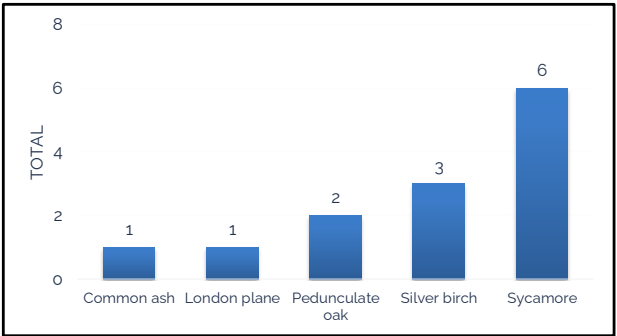
The distribution of age category across the tree population is useful for understanding expected longevity and can be used for determining mitigation, management and replacement.

Distribution of Physiological and Structural Conditions across the Tree Population



Physiological condition provides an indication of the vitality of the tree. Structural condition is related to the presence of defects that can lead to failures.

Species Composition of the Individual Tree Population



The proportions of any given family, genus, species, and cultivar which make up the total individually recorded tree population across the Site.

Ancient Woodland and Ancient, Veteran and Notable Trees

- Ancient Tree** - A tree that has passed beyond maturity and is old, or aged, in comparison with trees of the same species. Characterised by biological, cultural, or aesthetic features of interest.
- Ancient Woodland** - Any wooded area that has been continuously wooded since 1600 AD
- Veteran Tree** - Exhibiting features of biological, cultural, or aesthetic value characteristic of species surviving beyond the typical age range.
- Notable Tree** - mature trees which may stand out in the local environment because they are large in comparison with other trees around them.

Forestry Commission and Natural England Guidance for the protection of ancient woodland, ancient trees and veteran trees from development and the use of semi-natural buffer zones:

- Fifteen metres between any development and ancient woodland.
- Fifteen times the diameter of its stem or 5m from the edge of its canopy, if that's greater, around any ancient or veteran tree

Ancient Woodlands	Ancient Trees	Veteran Trees	Notable Trees
0	0	0	0

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CATEGORY A		CATEGORY B		CATEGORY C		CATEGORY U	
Trees with an estimated remaining contribution of at least 40 years. Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features.		Trees with an estimated remaining life expectancy of at least 20 years. Trees that might be included in category A, but are downgraded because of impaired condition or trees lacking the special quality necessary to merit the category A designation.		Trees with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.		Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.	
Sub-categories		Mainly arboricultural value	1	Mainly landscape value	2	Mainly cultural or conservation value	3
Summary of Individual trees, Groups, Woodlands and Hedges							
			T5, T11, T13		T3, T4, T6, T8, T9, T10, T12, G3		T7, T14
0		5		10		2	
Estimated Remaining Contribution (ERC)							
> 40 years		> 20 years		< 20 years		< 10 years	
Breakdown of Arboricultural Features for each BS5837:2012 Category							
Trees	0	Trees	4	Trees	8	Trees	2
Groups	0	Groups	1	Groups	2	Groups	0
Woodlands	0	Woodlands	0	Woodlands	0	Woodlands	0
Hedgerows	0	Hedgerows	0	Hedgerows	0	Hedgerows	0
Percentage of tree population	0.0%	Percentage of tree population	29.4%	Percentage of tree population	58.8%	Percentage of tree population	11.8%

In assigning the BS5837:2012 Category, particular consideration has been given to the presence of any structural defects for each feature, the size and form of each feature, its suitability within the context of a proposed development, and the location of each feature relative to existing site features e.g. its screening value or landscape amenity value.

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Tree No.	Species (Common Name)	Species (Scientific Name)	Height (m)	Stem Dia (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	Additional notes	Estimated remaining contribution (erc)	Ret Cat	RPA (m²)	RPA Radius (m)
INDIVIDUAL TREES																	
T1	Pedunculate oak	<i>Quercus robur</i>	17	600	7	7	7	7	2	E/Mat	Good	Good	Located on slope. Base obscured by vegetation. Twin stemmed from c. 4m. Canopy suppressed by adjacent trees. Good vigour.	20 to 40 years	B1, 2	163	7.2
T2	Sycamore	<i>Acer pseudoplatanus</i>	11	190	3	3	3	2	1	S/Mat	Fair	Fair	Located on slope. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	18	2.4
T3	Sycamore	<i>Acer pseudoplatanus</i>	14	310	2	1	3	3	7	E/Mat	Fair	Fair	Located on slope. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees. Located along edge of wall. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	41	3.6
T4	Sycamore	<i>Acer pseudoplatanus</i>	14	300	2	3	2	3	7	E/Mat	Fair	Fair	Located on slope. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees. Located along edge of wall. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	41	3.6
T5	London plane	<i>Platanus x hispanica</i>	16	686.22	4	5	5	5	6	E/Mat	Good	Fair	Located c. 2m. From wall. Twin stemmed from c. 1m. Acute occluding union. Occluding pruning wounds on stems. Canopy suppressed by adjacent trees. Moderate diameter deadwood throughout the crown.	20 to 40 years	B1, 2	206	8.1
T6	Pedunculate oak	<i>Quercus robur</i>	16	350	3	2	3	3	9	S/Mat	Good	Fair	Located on slope. Tall drawn form. Canopy suppressed by adjacent trees. Moderate diameter deadwood throughout the crown.	20 to 40 years	C1, 2	55	4.2
T7	o	o	14	200	1	1	1	1	0	O/Mat	Dead	Poor	Located on slope. Standing dead individuals. Moderate diameter deadwood throughout the crown.	<10 years	U	18	2.4
T8	Sycamore	<i>Acer pseudoplatanus</i>	9	110	1	1	1	1	5	S/Mat	Fair	Fair	Located on slope. Single stemmed with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	5	1.2
T9	Common ash	<i>Fraxinus excelsior</i>	13	158.11	2	2	3	2	5	S/Mat	Fair	Fair	Located on slope. Twin stemmed from base with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	10	1.8
T10	Sycamore	<i>Acer pseudoplatanus</i>	14	158.11	2	2	3	2	5	S/Mat	Fair	Fair	Located on slope. Twin stemmed from base with tall drawn form. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	10	1.8
T11	Silver birch	<i>Betula pendula</i>	17	429.53	5	5	5	5	5	E/Mat	Good	Good	Located on slope. Twin stemmed from base. Base obscured by vegetation. Good vigour.	20 to 40 years	B1, 2	82	5.1
T12	Sycamore	<i>Acer pseudoplatanus</i>	13	280	1	3	3	3	1	S/Mat	Good	Fair	Located on slope. Single stemmed. Canopy suppressed by adjacent trees.	10 to 20 years	C1, 2	34	3.3
T13	Silver birch	<i>Betula pendula</i>	14	280	3	4	5	4	4	E/Mat	Good	Good	Located on slope. Single stemmed. Occluding pruning wounds on stem. Good vigour.	20 to 40 years	B1, 2	34	3.3
T14	Silver birch	<i>Betula pendula</i>	15	250	3	1	3	2	0	E/Mat	Poor	Fair	Located on slope. Multi stemmed from c. 5m. Sparse and thinning canopy. Moderate diameter deadwood throughout the crown. Limited future potential.	<10 years	U	28	3.0

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					N	E	S	W									
TREE GROUPS																	
G1	Sycamore, Common beech, Common ash, English holly, Aspen, Wild cherry, Rowan	<i>Acer pseudoplatanus</i> , <i>Fagus sylvatica</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Populus tremula</i> , <i>Prunus avium</i> , <i>Sorbus aucuparia</i>	9 - 19	90 - 750	5	5	5	5	0	E/Mat	Good	Good	Located along edge of wall. Dense understory of brambles and self seeded trees. Tall drawn forms. Group forms a cohesive canopy. Good screening and landscape value.	20 to 40 years	B2	254	9.0
G2	Sycamore, Horse chestnut, Silver birch, Common hawthorn, Common ash, English holly, Pedunculate oak	<i>Acer pseudoplatanus</i> , <i>Aesculus hippocastanum</i> , <i>Betula pendula</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Quercus robur</i>	2 - 18	30 - 500	4	4	4	4	0	E/Mat	Fair	Fair	Located to the south of Site. Unmanaged wooded are. Dense understory of brambles and self seeded trees. Standing dead individuals within.	10 to 20 years	C2	113	6.0
G3	Sycamore, Horse chestnut, Common hawthorn, Common ash, English holly, Pedunculate oak, English elm	<i>Acer pseudoplatanus</i> , <i>Aesculus hippocastanum</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Quercus robur</i> , <i>Ulmus minor</i> var. <i>vulgaris</i>	1 - 7	30 - 120	2	2	2	2	0	S/Mat	Fair	Fair	Located along edge of wall and on slope. Self seeded trees. Majority are multi stemmed. Low arboricultural value.	10 to 20 years	C2	7	1.5