

**BS 5837:2012 Tree Schedule: Rackheath Wetland Nutrient,  
Mitigation Project**

BS5837:2012 Tree Survey: Explanation of Survey Criteria

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	radial							

*Sequential reference number cited on all aspect drawing.*

*Height and Crown spread measured to the nearest half meter; # denotes where this is estimated.*

*e.g.: young, semi-mature, early-mature, mature or over-mature*

*Area around tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of roots and soil structure is a priority. \*The RPA has been manipulated to allow for various site features, i.e. roads, structures or changes in levels. Please refer to the Tree Constraints Plan for these changes.*

*Category prefix A-C denotes arboricultural quality, decreasing from A (high) to C (low); Subcategories 1, 2 and 3 highlight associated arboricultural (1), landscape (2) and ecological (3) qualities.*

*Category U trees are those in such a condition that they cannot be realistically retained as living trees in the current context for the long term.*

*Measured to the nearest 10mm; # denotes estimated diameter where access is not possible.*

*e.g.: above-average, average, below average or dead*

*General observations, i.e. defects, preliminary management recommendation, presence of pests/disease, perceived significance.*

*Height of first significant branch and/or canopy*

*e.g.: good, indifferent, poor, or hazardous*

**Colour band key:**

- Category A
- Category B
- Category C
- Category U

The following survey should not be interpreted as a report on tree health and safety. Aspect's opinion of tree condition and structural potential is valid for a limited period of 12 months from the date of inspection. Validity is assumed in the absence of inclement weather and no change to the trees existing setting.

Tree Number	Common Species Name	Trunk Diameter (mm)	Height (m)	Crown Spread (m)					First Significant Branch (m)	Crown Clearance (m)	Life Stage	Physiological Condition	Structural Condition	Comments	BS5837 Category	RPA Radius (m)
				N	E	S	W	Radial								
T1	English Oak	1000 #	14	9.5	8.5	11.75	7.5		5.5	4.25 W	Mature	Below Average	Poor	Specimen in decline with above average major deadwood present and a dead central leader from c.8m Dense Ivy clad stem Cultivated ground to the west Outbuilding containing a pump to the east within c.6.5m	C1	12
T2	Hazel	10x 30 10x 50 #	6					3	3.5	4	Mature	Average	Indifferent	Inaccessible within hedge H1 Multi stemmed at the base Structure typical for the species Outgrown hedge specimen Low arboricultural value	C1	2.1
T3	English Oak	700 #	14	8.5	8.25	6.75	7.75		2.5	5	Early Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Ivy clad stem Broken branches in the crown Lower crown suppressed crown to the north by T4 Moderate example of the species at current age	B12	8.4
T4	English Oak	700 #	14	5	6.25	5.5	8		5	5	Early Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Multi stemmed at c.3m Ivy clad stem Broken branches in the crown Lower crown suppressed crown to the south by T3 Moderate example of the species at current age	B12	8.4
T5	Ash	300 #	16	4 #	5.5	5 #	5		4	4	Semi Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Suppressed crown to the north and south Dense Ivy clad stem Moderate landscape value only	B2	3.6
T6	Ash	120 250 600 #	15	6 #	6.75	5.5 #	6.5		3	5	Early Mature	Average	Poor	Inaccessible due to a ditch on the east side and dense undergrowth to the west Multi stemmed at the base Suppressed crown to the south Dense Ivy clad stem Moderate landscape value only	B2	7.8
T7	English Oak	200 #	14	5 #	6.25	4.5 #	6 #		3.5 #	4.5	Semi Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Broken branches caused by flail mower Ivy clad stem Suppressed crown to the north and south Moderate landscape value only	B12	2.4

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				N	E	S	W	Radial								
T8	English Oak	150 #	14	3 #	5	3 #	5 #		6 #	6	Semi Mature	Average	Poor	Inaccessible due to a ditch on the east side and dense undergrowth to the west Standing dead stem	U	N/A
T9	English Oak	90 #	9					3.5	1	1	Young	Average	Indifferent	Establishing self-seeded stem Low arboricultural value	C1	1.2
T10	English Oak	800 #	16	7 #	7.25	7	7.5 #		3	4.5	Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Ivy clad stem Broken branches in the crown Structure typical for the species Moderate example of the species at current age	B12	9.6
T11	English Oak	800 #	15	8 #	5	6	7 #		1.5	3	Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west No central leader at c.5m Fractured branch at c.1.5m on the south side Ivy clad stem Moderate landscape value only	B2	9.6
T12	Ash	2x 150 #	16	4 #	7	3 #	7 #		4	3	Semi Mature	Below Average	Poor	Inaccessible due to a ditch on the east side and dense undergrowth to the west Twin stemmed at the base with eastern stem completely dead and leaning to the east Western crown healthy Base obscured on the embankment Low arboricultural value	C1	2.4
T13	English Oak	900 #	18	10.5	10.5	10.5	10.5 #		2.5	4	Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Structure typical for the species Above average minor deadwood High example of the species at maturity	A12	10.8
T14	Elm	2x 110 #	12						3 #	-	Semi Mature	Dead	Hazardous	Inaccessible due to a ditch on the east side and dense undergrowth to the west Twin stemmed at the base Both standing dead stems	U	N/A
T15	Ash	100 2x 120 200 #	17						3	3	Semi Mature	Below Average	Poor	Inaccessible due to a ditch on the east side and dense undergrowth to the west Main stem completely dead with mostly dead basal growth and one stem exhibiting live growth	U	N/A

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T16	English Oak	300 #	17	3.5 #	3	5 #	7 #		3.5	5	Semi Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Etiolated form Suppressed crown to the east and north by T15 and T17 Moderate landscape value only	B2	3.6
T17	English Oak	1000 #	16	12	10.75	8.5	10.5 #		6	5.5	Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Broken branches and minor deadwood Structure typical for the species High example of the species at maturity	A12	12
T18	English Oak	400 500	17	8	7	5.25	9 #		3.5	3.5	Mature	Average	Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth to the west Twin stemmed at the base Suppressed crown to the south by T17 Moderate example of the species at the current age	B12	7.8
T19	English Oak	150	6					3	2	2	Semi Mature	Average	Indifferent	Inaccessible all round as within hedge H2 Twin stemmed at c.2.5m Structure typical for the species Low arboricultural value	C1	1.8
T20	English Oak	1100 #	20	10	10.5	10.5	10.5 #		5	5	Mature	Average	Indifferent	Inaccessible all round as within hedge H2 Structure typical for the species Minor deadwood Minor cavities in the scaffold structure High example of the species at maturity	A12	13.2
T21	English Oak	1000 #	15	6.25	8	7.25	8.5 #		5	5	Mature	Average	Indifferent	Inaccessible all round as within hedge H2 Structure typical for the species Minor deadwood Minor cavities in the scaffold structure Suppressed crown to the north by T22 High example of the species at maturity	A12	12
T22	English Oak	900 oi	15	9.5	10.5	10.25	10.5		4	2.75	Mature	Average	Indifferent	Multi stemmed at c.4m with no central leader Dense Ivy clad stem Moderate example of the species at maturity	B12	10.8
T23	Apple	180 #	6	4.25	4.75	3.5	4 #		4	4	Early Mature	Average	Indifferent	Inaccessible as within hedge H2 Dense crown Low arboricultural value	C1	2.1
T24	Field Maple	800 @ c.0.5m	8	4.5	4.5	5.25	5		3	3	Mature	Average	Poor	Inaccessible all round as within hedge H2 Multi stemmed at the base and twin stemmed at c.1.6m Structure typical for the species Moderate example of the species at maturity	B12	9.6

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				N	E	S	W	Radial								
T25	English Oak	260	8	3.5	4.5	2.5	3.5		4.25	4	Semi Mature	Average	Indifferent	Inaccessible all round as within hedge H2 Multi stemmed at the base and twin stemmed at c.1.6m Structure typical for the species Suppressed crown to the south by T24 Moderate example of the species at maturity	B12	3
T26	English Oak	200 350 #	7.5	4.5	5	3.5	3.5		1.5	3	Semi Mature	Average	Poor	Inaccessible all round as on an embankment and within hedge H2 Twin stemmed at the base Moderate landscape value only	B2	4.8
T27	English Oak	700 #	10	6	6	6.5	5		3	4	Early Mature	Below Average	Poor	Inaccessible all round as within hedge H2 Specimen in decline with crown retrenchment and dieback visible Above average minor deadwood	C1	8.4
T28	Hawthorn	400 @ c.0.5m	2.5	1	5.5	1	3.5		0.5	0.25	Mature	Below Average	Indifferent	One stem with crown bias to the east and west as maintained as part of adjacent hedge maintenance Low arboricultural value	C1	4.8
T29	English Oak	1200 #	18	10 #	8.5	10.75	7		6	5.5	Mature	Average	Poor	Inaccessible behind group G5 Major dead branch to the east at c.4m, remaining crown healthy Possible lightning strike with bark loss and delaminating bark down the south side of the stem Moderate example of the species at maturity	B12	14.4
T30	Alder	100 300 #	8	2 #	2 #	7 #	7 #		1	4	Semi Mature	Average	Poor	Inaccessible within G5 and dense undergrowth Dense Ivy clad stem Appears to be a vertical stem with a side stem growing to the south west at the base Low arboricultural value	C1	3.9
T31	Alder	300 #	8	3 #	4 #	2 #	2 #		3	3	Semi Mature	Average	Poor	Inaccessible within G5 and dense undergrowth Dense Ivy clad stem Low arboricultural value	C1	3.6
T32	English Oak	800 #	18					10	5	5	Mature	Average	Indifferent	Inaccessible due to dense undergrowth Crown break at c.4.5m with no central leader Established Ivy growth around the stem High landscape value only	A2	9.6
T33	Alder	100	6					4	0.5	0.5	Semi Mature	Average	Indifferent	Outlying tree adjacent to watercourse Inaccessible due to dense undergrowth Low arboricultural value	C1	1.2

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T34	Ash	300 #	16					5	4	4	Semi Mature	Below Average	Poor	Inaccessible due to the watercourse and dense undergrowth Eastern crown mostly dead and a sparse western crown Low arboricultural value	C1	3.6
T35	Unknown	400 #	15					8	5	5	Semi Mature	Dead	Hazardous	Standing dead stem	U	N/A
T36	Ash	150	6					3	2	2	Semi Mature	Average	Indifferent	Structure typical for the species Low arboricultural value	C1	1.8
T37	English Oak	900 #	18					10	3	2	Mature	Average	Indifferent	Structure typical for the species Moderate example of the species at maturity	B12	10.8
G1	Elm Alder Elder Ash	180 av #	16 max 12 av					3 #	1	1	Semi Mature to Early Mature	Dead to Average	Hazardous to Indifferent	Inaccessible due to a ditch on the east side and dense undergrowth throughout A mix of standing dead stems and live specimens Structure typical for the species Predominantly low arboricultural value with a number of category U trees within the group	C1	2.1
G2	Hawthorn Hazel Blackthorn	300 av # 400 max #	7					4	0.25	0.25	Early Mature	Average	Indifferent	Field boundary group Dense assemblage with cohesive crowns Low arboricultural value	C1	3.6
G3	Hawthorn Elder Blackthorn Field Maple Hazel English Oak	300 av #	7					5.5	0.25	0.25	Early Mature	Average	Indifferent	Field boundary group Dense assemblage with cohesive crowns Low arboricultural value	C1	3.6
G4	Holly	100 #	6					2.5	0.5	0.5	Semi Mature	Average	Indifferent	Scrub group Inaccessible due to dense crowns Low arboricultural value	C1	1.2
G5	Hawthorn Elder Blackthorn Hazel Goat Willow	80 av #	5					3	0.25	0.25	Early Mature	Average	Indifferent	Unmaintained dense group Cohesive crowns Low arboricultural value	C1	0.9
G6	Alder	300 av #	18 #					5 #	3 #	3 #	Early Mature	Average	Indifferent	Inaccessible due to dense undergrowth Structure typical for the species Low arboricultural value	C1	3.6

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G7	Hybrid Black Poplar Goat Willow Elder	700 max #	28 #					9	4	4	Early Mature	Average	Indifferent	Located to the southeast of the site Predominantly Poplar with smaller trees as an understorey along the embankment to a lake Moderate landscape value only	B2	8.4
G8	Alder	3x 200 max #	8					4	0.5	0.5	Semi Mature	Average	Indifferent	Small assemblage adjacent to a lake Structure typical for the species Cohesive crowns Moderate landscape value only	B2	4.2
H1	Hawthorn Hazel Blackthorn	80 av #	5					1.5	0.25	0.25	Early Mature	Average	Indifferent	Unmaintained agricultural field boundary hedge Cohesive crowns Low arboricultural value	C1	0.9
H2	Hawthorn Elder Blackthorn Hazel	6x 30 #	3					1	0.25	0.25	Semi Mature	Average	Indifferent	Maintained agricultural field boundary hedge Cohesive crowns Low arboricultural value	C1	0.9
H3	Field Maple	6x 30 #	2					1	0.25	0.25	Early Mature	Average	Indifferent	Maintained agricultural field boundary hedge Cohesive crowns Low arboricultural value	C1	0.9
H4	Plum	6x 30 #	2.5					1	0.25	0.25	Early Mature	Average	Indifferent	Maintained agricultural field boundary hedge Cohesive crowns Low arboricultural value	C1	0.9
H5	Elm	60 av #	3.5					2	0.5	0.5	Semi Mature	Average	Indifferent	Unmaintained agricultural field boundary hedge Cohesive crowns but separated by intermittent gaps Low arboricultural value	C1	0.6
W1	English Oak Goat Willow Alder Elder Hazel Hawthorn Sycamore	4x 100 #	10 av 18 max					5 av	0.5 to 3	0.5 to 3	Semi Mature to Early Mature	Average	Indifferent	Woodland along the eastern boundary of the site Larger trees set back up the hill further east Predominantly Alder as frontage trees adjacent to a watercourse Structure typical for the species Occasional dead stems towards southern end	B12	2.4