

TREE SURVEY IN ACCORDANCE WITH BRITISH STANDARD 5837:2012 'TREES IN RELATION TO DESIGN, DEMOLITION & CONSTRUCTION - RECOMMENDATIONS'

CLIENT: QEwC Ltd

PROJECT REF: 21102_21

SITE: Bersham Hall, Bertram Road, Wrexham, LL14 4HS

CONTACT: /

SURVEY DATE: 20 October 2021

ARB CONSULTANT: Rod Benzies (MarborA)

TREE REF. #	SPECIES	AGE	HEIGHT (in m)	CANOPY (in m) N - S - E - W				STEM (in mm)	RPA (in m)	CLEARANCE (in m)	1st BRANCH (in m)	VITALITY	LIFE EXPEC.	NOTES	BS CAT.	MANAGEMENT
T1	Sycamore; Acer pseudoplatanus; Aceraceae	M	20+	1.0	10	9.0	1.5	290, 270, 222	5.45	3	4.5E	Good/Fair	20-40	Growth influenced by adjacent trees. Multistemmed tree 3 stems. Ivy establishing on stem hindering VTA	B 2	
T2	Sycamore; Acer pseudoplatanus; Aceraceae	M	20+	7.0	6	7.0	4.5	500, 470	8.23	3	3.5E	Good/Fair	20-40	Ivy establishing on stem hindering VTA. Multistemmed tree 2 stems. Low level adhoc pruning	A 2	
T3	Common Ash; Fraxinus excelsior; Oleaceae	M	20+	5.0	5.5	7.0	4.5	560	6.72	10	5.5E	Good/Fair	20-40	Ivy establishing on stem hindering VTA. Minor ADB symptoms	B 2	
T4	Lawson Cypress; Chamaecyparis lawsoniana; Cupressaceae	M	20+	4.0	4.5	5.0	3.5	970*	11.64	4	3.5E	Good/Fair	20-40	Ivy establishing on stem hindering VTA. Low level adhoc pruning. Multistemmed at 1.5m. DBH measured lower than 1.5m. Post horn Branch structure	A 2	
T5	Chile Pine; Araucaria araucana; Araucariaceae	M	20+	6.5	6.5	6.5	6.5	740	8.88	4.5	10All round	Good/Fair	40+	Ivy establishing on stem hindering VTA. Tarmac drive to east within RPA	A 2	
T6	English Yew; Taxus Baccata; Taxaceae	M	8	5.5	4.5	3.0	4.5	500*	6	0	0All round	Good/Fair	20-40	Tarmac drive to east within RPA. Multistemmed all round with recumbent stems	B 2	
T7	Hybrid Holly; Ilex alterclarensis; Aquifoliaceae	Y/SM	7	2.5	2.5	2.5	2.5	190, 200	3.31	1.5	1.25All round	Fair	10_20	Ivy establishing on stem hindering VTA. Multistemmed tree 2 stems	C 2	
T8	Sycamore; Acer pseudoplatanus; Aceraceae	M	20+	10.0	8.0	8.0	7.0	690	8.28	3	6E	Fair	20-40	Ivy establishing on stem hindering VTA. Multistemmed tree 2 stems. Inert cavity in base. Multistemmed from 1.5m. Tarmac to north and east	B 2	
T9	English Yew; Taxus Baccata; Taxaceae	M	6.5	3.5	2.5	1.5	3.5	500*	6	0	0All round	Fair	20-40	Ivy establishing on stem hindering VTA. Tarmac drive to east within RPA. Multistemmed all round with recumbent stems	B 2	

T10	Hybrid Holly; Ilex alterclarensis; Aquifoliaceae	EM	5	1.5	1.5	1.5	1.5	150	1.8	1.5	1.25All round	Fair	10_20	Small tree	C 2	
G1	Mixed species group	M/OM	20+	n/a	n/a	n/a	n/a	200+	n/a	0	0	Norm	40+	Canopy edge of boundary group, individuals picked up within. Group's	A 3	

TREE SURVEY 'KEY' - BRITISH STANDARD 5837:2012 'TREES IN RELATION TO DESIGN, DEMOLITION & CONSTRUCTION - RECOMMENDATIONS'

TPO/CA	-	On client request: presence of Tree Preservation Orders (TPO) / site location within a Conservation Area (CA) & date checked;
TREE REF. #	-	Tree reference number: tag or plan number (T - individual tree, G - group of trees/shrubs, H - hedge);
SPECIES	-	Genus, species and/or common name;
AGE	-	Age classification (NP - new planting, Y - young, EM - Early-Mature, SM - semi mature, M - mature, LM - late mature, OM - over mature);
HEIGHT (in m)	-	Approximate height of tree in metres;
CANOPY (in m) N - S - E - W	-	Approximate branch spread in metres of the four principal compass points;
STEM (in mm)	-	Stem diameter in millimetres: measured in accordance with s.4.6 of BS5837;
RPA (in m)	-	Circle radius of the Root Protection Area: calculated using the stem diameter (single/multiple stem variant, as outlined within BS5837);
CLEARANCE (in m)	-	Crown clearance in metres above the adjacent ground level;
IST BRANCH (in m)	-	Clearance in metres to first significant branch and direction of growth (where relevant);
VITALITY	-	Physiological condition typically gauged from canopy cover and annual extension growth (good, fair, poor, dead);
ESTIMATED REMAINING CONTRIBUTION	-	Approximate number of years a tree will continue to contribute without the need for oppressive arboricultural intervention, categorised in years as <10, 10-20, 20-40 and
NOTES	-	Structural and physiological condition observations;
BS CAT.	-	BS5837 tree quality assessment category: resulting from structural/physiological condition and remaining contribution (approximate useful life expectancy);
	-	Standard retention category U : in such a condition that any existing value would be lost within 10 years;
	-	Standard retention category A : high quality and value, in such a condition as to be able to make substantial contribution of 40+ years;
	-	Standard retention category B : moderate quality and value, in such a condition as to make a significant contribution of 20+ years;
	-	Standard retention category C : low quality and value, currently in adequate condition to remain until new planting could be established 10+ years;
	-	Standard retention sub-category, mainly due to: 1 - Arboricultural values, 2 - Landscape values, 3 - Cultural values, including conservation;
MANAGEMENT	-	Preliminary management recommendations (as appropriate);
' * '	-	Within the survey schedule denotes an estimate