

Appendix 1.1 - Tree Survey Data

Table 1 - Tree Survey Data

Date: 4th February 2019

Site: Nant Silyn, Pont Wen, Whitegate, Wrexham LL13 8SQ

Surveyor: N Brewin

Key For Tree Survey Data

Tree ID	Numerical value assigned to the tree or tree group
Common & Botanical Name	Common and botanical name recorded
Height (m)	Height to the top of the central canopy
Stem Dia. (mm)	Depth of main stem measured at 1.5m
Crown Spread (m)	Measure of the spread of the canopy across the four cardinal compass points
Height & Orientation of First Significant Branch	Height and orientation on the main stem of the first significant branch
Avg. Canopy Height (m)	The average height of the canopy of the tree
Life Stage	Classified as young, semi mature, mature, over mature or veteran (See Table 1 section 2.0.4 for further classification)
General Observations	Significant structural and physiological defects noted
Preliminary Recommendations	Works recommendations to remedy or further investigate significant defects, or to facilitate development or site access.
Estimated Remaining Contribution (Years)	Taken from guidelines provided within BS 5837 (2012) Trees in Relation to Design, Demolition and Construction
BS5837: 2012 Category	Taken from guidelines provided within BS 5837 (2012) Trees in Relation to Design, Demolition and Construction
RPA Radius (m)	Root protection area - radius of RPA
RPA m²	Root protection area

Tree ID	Common Name	Botanical Name	Height (m)	STEM [HIDE]						Calc. / Actual Stem Dia. (mm)	Spread (m)				Height (m) & Orientation of First Significant Branch	Avg. Canopy Height (m)	Life Stage	General Observations	Preliminary Recommendations	Estimated Remaining Contribution (Years)	BS5837: 2005 Category	RPA Radius (m)	RPA m²
				No. of Stems	Stem 1 / Actual / Avg.	Stem 2	Stem 3	Stem 4	Stem 5		N	E	S	W									
1	Ash	Fraxinus excelsior	8	1	250					250	4	4	4	2	N3	3	SM	Historic crown lift, good wound wood formation.	No works required	40+	A1	3.0	28
2	Ash	Fraxinus excelsior	8	1	380					380	4	3	4	4	S2	3	SM	Twin stemmed at 2-3m with tight unions and included bark. Stems further dividing into 4 stems at 2m with tight unions. Upswept form.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	<10	U	4.5	65
3	Birch species	Betula spp.	9	1	240					240	3	2	4	1	S3	3	SM	Slight asymmetrical form to crown. Part of a stand of 6 trees.	No works required	20+	B2	2.9	26
4	Birch species	Betula spp.	9	1	210					210	3	2	2	1	S3	3	SM	Slight asymmetrical form to crown. Part of a stand of 6 trees. Low percentage of deadwood.	No works required	20+	B2	2.5	20
5	Birch species	Betula spp.	8	1	240					240	2	3	4	3	W2	3	SM	Slight asymmetrical form to crown. Part of a stand of 6 trees. Ivy growth on main stem.	No works required	20+	B2	2.9	26
6	Birch species	Betula spp.	13	1	480					480	6	5	7	5	S3	3	M	Slight asymmetrical form of crown. Hazard beam at 8m on secondary growth. Small hanging branch.	No works required	20+	B1	5.8	104
7	Birch species	Betula spp.	8	1	190					190	2	1	3	3	N2	3	SM	Slight asymmetrical form to crown and upswept crown. Part of a stand of 6 trees. Ivy growth on main stem.	No works required	20+	B2	2.3	16
8	Birch species	Betula spp.	12	1	550					550	4	3	4	4	E1	2	M	Dense ivy restricting assessment of stem and crown. Stem epicormics. Witches broom in crown and small hanging branch.	No works required	20+	B1	6.6	137

Tree ID	Common Name	Botanical Name	Height (m)	STEM [HIDE]						Calc. / Actual Stem Dia. (mm)	Spread (m)				Height (m) & Orientation of First Significant Branch	Avg. Canopy Height (m)	Life Stage	General Observations	Preliminary Recommendations	Estimated Remaining Contribution (Years)	BS5837: 2005 Category	RPA Radius (m)	RPA m²
				No. of Stems	Stem 1 / Actual / Avg.	Stem 2	Stem 3	Stem 4	Stem 5		N	E	S	W									
9	Lawson cypress	<i>Chamaecyparis lawsoniana</i>	12	1	550					550	4	3	4	4	E1	2	SM	Slight asymmetrical form to main stem and crown due to adjacent growth.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B1	6.6	137
10	Cherry species	<i>Prunus spp.</i>	4	1	250					250	3	3	3	3	0	0	SM	Dense Ivy restricting access and assessment, stem diameter assumed from height. Ivy forms a dense hedge feature. Significant wildlife value. BT wires to rear of tree.	No works required	20+	B1	3.0	28
11	Birch species	<i>Betula spp.</i>	10	1	280					280	4	3	0	2	N4	4	SM	Asymmetrical form to crown, part of a stand of 6 trees. Ivy growth on main stem.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B2	3.3	35
12	Birch species	<i>Betula spp.</i>	12	1	420					420	5	3	4	5	W4	2	M	Deadwood stubs. Good wound wood growth.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B1	5.0	80
13*	Birch species	<i>Betula spp.</i>	10	1	100					100	1	2	1	1	S2	3	SM	Restricted visual assessment, tree situated behind fence in cypress group. Asymmetrical form to crown, part of a stand of 6 trees.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	C2	1.3	5
14	Birch species	<i>Betula spp.</i>	10	1	260					260	1	2	4	4	S4	3	SM	Asymmetrical form to crown, part of a stand of 6 trees.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B2	3.1	31
15	Birch species	<i>Betula spp.</i>	10	1	230					230	0	3	3	0	E4	3	SM	Asymmetrical form to crown, part of a stand of 6 trees. Twin stemmed at 2m.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B2	2.8	24
16	Birch species	<i>Betula spp.</i>	10	1	270					270	2	3	4	4	S3	1	SM	Asymmetrical form to crown, part of a stand of 6 trees. Dead wood stubs.	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	20+	B2	3.2	33

* Trees with an asterix next to their number have had their BS category changed due to their stem diameter dimensions being under 15cm, in keeping with relevant guidance

Appendix 1.2 - Group Survey Data

Date: 4th February 2019

Key For Tree Survey Data

Tree ID	Numerical value assigned to the tree or tree group
Description & Dominant Species	Brief description of the group with dominant species noted
Height (m)	Average height to the top of the central canopy
Stem Dia. (mm)	Average depth of main stem measured at 1.5m
Crown Spread (m)	Average measure of the spread of the canopy across the four cardinal compass points
Life Stage	Classified as young, semi mature, mature, over mature or veteran (See appendix 1 for further classification)
General Observations	Significant structural and physiological defects noted
Preliminary Recommendations	Works recommendations to remedy or further investigate significant defects, or to facilitate development or site access.
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BS5837: 2012 Category	Taken from guidelines provided within BS 5837 (2012) Trees in Relation to Design, Demolition and Construction
RPA Radius (m)	Root protection area - radius of RPA
RPA m ²	Root protection area

Site: Nant Silyn, Pont Wen, Whitegate, Wrexham LL13 8SQ

Surveyor: N Brewin

Group ID	Description	Dominant Species	Height (m)	STEM [HIDE]						Calc. / Actual Stem Dia. (mm)	Spread (m)				Life Stage	General Observations	Preliminary Recommendations	Estimated Remaining Contribution (Years)	BS5837: 2005 Category	RPA Radius (m)	RPA m ²
				No. of Stems	Stem 1 / Actual / Avg.	Stem 2	Stem 3	Stem 4	Stem 5		N	E	S	W							
1	Lawson cypress hedge - lapsed management	Lawson cypress, <i>Chamaecyparis lawsoniana</i>	7	1	300					300	3	3	3	3	SM	Densely planted row of cypress at site boundary under lapsed management. Some reduced in height some not. Ivy growth and access restricting assessment. Two Birch trees in group towards west corner with stem wounds and some decay, trees growing through cypress. Dead Elder in west corner. Historic stem wounds partially occluded on cypress.	No works required.	20+	B2	3.6	41
2	Small group of multi stemmed riverside ash trees	Ash, <i>Fraxinus excelsior</i>	10	3	350	350	350			610	5	5	4	3	SM	Lapsed coppice ash. Dense ivy growth on main stems and access restricting assessment. Ash suckers/ self sets prevalent at base of group.	No works required.	20+	B2	7.3	168
3	Small group of riverside cherry trees	Cherry species, <i>Prunus spinosa</i>	8	1	250					250	3	3	3	3	SM	Dense ivy and access restricting assessment.	No works required.	20+	B2	3.0	28
4	Lapsed coppice riverside elder	Elder, <i>Sambucus nigra</i>	4	5	100	100	100	100	100	220	3	3	3	3	SM	Dense ivy and access restricting assessment.	No works required.	10+	C2	2.6	22
5	Sycamore and ash trees under lapsed management as a hedge.	Sycamore, <i>Acer pseudoplatanus</i> , Ash, <i>Fraxinus</i>	3	4	100	100	100	100		200	2	2	2	2	SM	Lapsed hedge.	No works required.	10+	C2	2.4	18
6	Dense area of Elder and Cotoneaster behind fencing, restricted access due to badger presence.	Elder, <i>Sambucus nigra</i> , <i>Cotoneaster species</i> , <i>Cotoneaster</i> spp.	3	4	100	100	100	100		200	2	2	2	2	SM	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	No works required.	10+	C2	2.4	18
7	Lawson cypress hedge - lapsed management	Lawson cypress, <i>Chamaecyparis lawsoniana</i>	4	1	200					200	2	2	2	2	SM	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	No works required.	20+	B2	2.4	18
8	2 multi stemmed elder	Elder, <i>Sambucus nigra</i>	4	5	100	100	100	100	100	220	2	2	2	2	SM	Remove to ground level and treat stump to prevent re-growth. Remove all arisings from site.	No works required.	10+	C2	2.6	22



Appendix 3

Bibliography

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Appendix 4 Photographs – Nant Silyn

11 images, February 2019



P1 - Site Interior



P2 - T1 & T2 Ash



P3 - G1 (pruned) and T1 - T8



P4 - G1 with 2 Birch



P5 - T9 Cypress



P6 - Groups 2 - 4 riverside



P7 - Mature ivy feature



P8 - T10 in ivy feature



P9 - Group 6 exclusion area

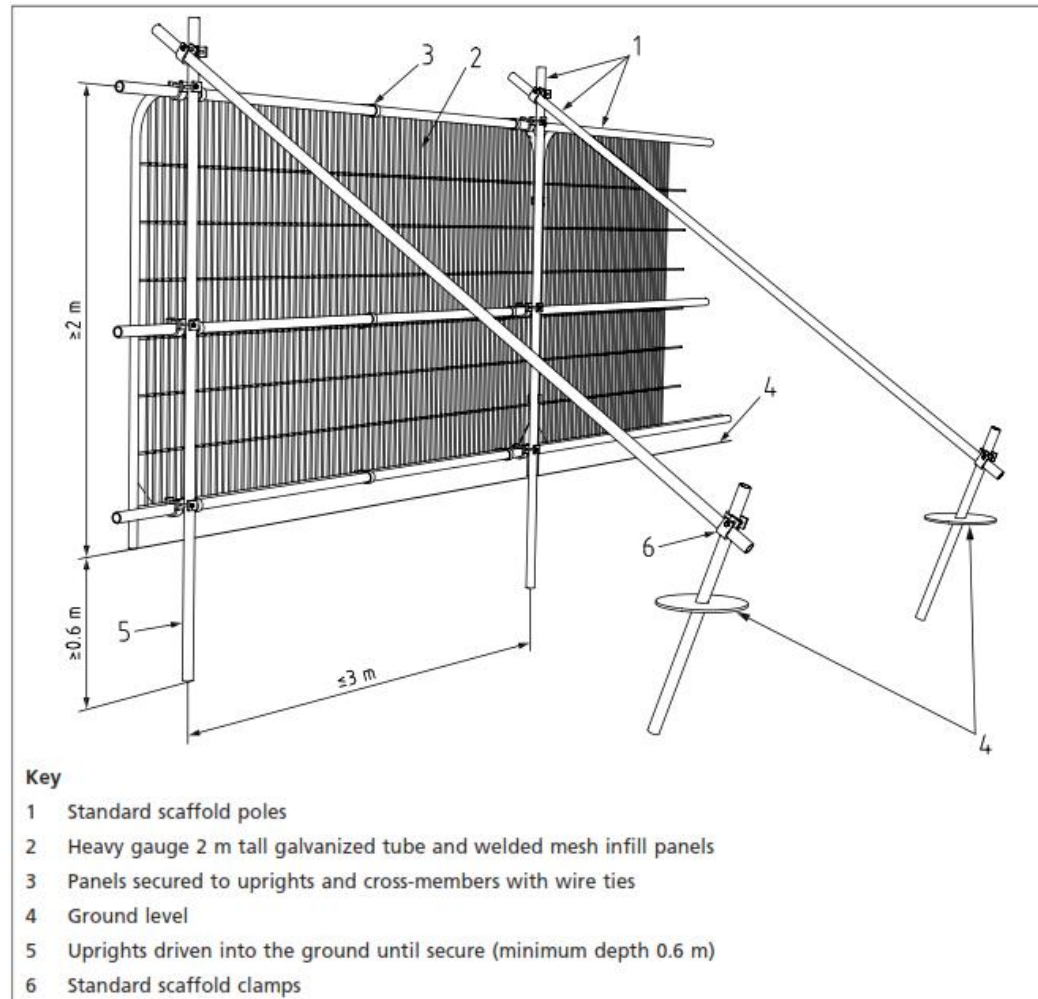


P10 - T11 - T16 Birch and G7



P11 - Group 8 Elder

Appendix 5 - Tree Protection Fencing Specification



Appendix 6 - Tree Protection Fencing Signage



Appendix 7 – Arboricultural Method Statement (AMS) Summary Events Table in Sequence Order

Activity	Detail	Completed By (Sign and Date)	Main Contractor Sign Off: (Sign and Date)
Erection of Tree Protection Fencing	Contractor to erect tree protection fencing as per specification and prior to commencement of any works on site		
Supervising Arboricultural Consultant to Check Fencing	Consultant to check all fencing has been erected as per the Tree Protection Plan and Specification		
Relocation of T1 Tree Protection Fencing	Consultant to supervise relocation of Tree Protection Fencing within the Construction Exclusion Zone for T1 to enable construction of the bin store		
Soft Landscaping Under Supervision	Consultant to supervise hand digging adjacent to Group 2, Group 3 and T10.		
Supervising Arboricultural Consultant to Check all Works Complete Prior to Removal of Fencing	Consultant to check that all works have been completed in order to authorise removal of the Tree Protection Fencing		

N.B. Supervisory visits will be documented under separate cover.