
PENLEY MILL TREE SURVEY

Arboricultural Method Statement

September 2020



1.0 INTRODUCTION

- 1.1 This arboricultural method statement has been carried out with reference to plans for the construction of a new lake at Penley. It is accompanied by Tree Survey Plan, Dwg no. PMLW20.04-01.
- 1.3 The tree survey was carried out in September 2020 using the survey criteria contained in Trees in relation to design, demolition and construction BS 5837: 2012. All trees within the planning application boundary of the site were surveyed and plotted and included the continuous line of multi-stemmed alder which run along the brook at the western edge of the site.

2.0 TREE SURVEY METHODOLOGY

- 2.1 The trees were surveyed using the criteria according to BS 5837:2012 namely:
- a) reference number
 - b) species
 - c) height
 - d) stem diameter (m)
 - e) branch spread N,S,E,W
 - f) ultimate projected height
 - g) height of crown above ground
 - h) life stage (young, semi mature, early mature, mature, over mature)
 - i) condition, physiological or structural
 - j) estimate remaining contribution in years <10,10+,20+,40+)
 - k) Category U or A to C grading : Category U : Trees in a condition that cannot be realistically be retained; Category A trees of high quality with an estimated remaining life expectancy of 40 years; Category B: trees of moderate quality with an estimated remaining life expectancy of 20 years; Category C: trees of low quality with an estimated remaining life expectancy of 10 years or trees with stem dia. below 150mm;
 - l) comments including notes on tree surgery or further investigation
 - m) Root Protection Area (RPA) calculated in m2.
- 2.2 A total of 12 trees and two groups were surveyed and the results of the survey are recorded in **Table 1** below and on plan.

3.0 ARBORICULTURAL METHOD STATEMENT

- 3.1 The proposed development, the creation of a new lake in this case, will not have any impact on the proposed trees. The development footprint has been deliberately designed to avoid any conflict with the surveyed trees all of which will be retained. The footprint lies outside the RPAs of all retained trees but methods to ensure their protection from any potential damage during the construction period are set out below.

TREE PROTECTION

- 3.2 Measures to protect the retained trees include:

Groups 1 and 2. The erection of a continuous line of 2.0m high Heras fencing secure to 75mm dia. wooden stakes at 5.0m intervals. The line of the fence will coincide with the outer limits of the average RPA of the line of trees.

Individual trees In the case of individual trees outside G1 and G2, protective fencing consisting of 2.0m high Heras fencing secured to 75mm dia. wooden stakes at 3.0m intervals running immediately outside the RPA of each tree will be erected.

SUPERVISION

- 3.3 During on site construction works the site will be visited once weekly by a fully qualified chartered landscape architect to ensure that all protective measures are in place and no infringements to the protective areas have occurred.

PENLEY MILL TREE SURVEY

Tree No.	Species (English)	Species (Latin)	Life stage	Dia (mm)	Ht	Cr Ht	N	S	E	W	Life expect	Condition	Cat	observations / Comments	RPA
1	Oak	Quercus robur	M	0.9	14	4	4	6	4	7	40+	Good	A		2.54m ²
2	Ash	Fraxinus excelsior	M	0.7	14	2	3	7	3	8	40+	Reasonable	A	Leaning	1.53 m ²
3	Oak	Quercus robur	M	1.0	12	4	9	9	5	9	40+	Good	A		3.14 m ²
4	Alder	Alnus glutinosa	EM	0.5	8	3	3	3	3	3	10+	Poor	C	Dying	0.78 m ²
5	Alder	Alnus glutinosa	SM	0.6	6	2	5	5	5	5	40+	Good	A		1.13 m ²
6	Alder	Alnus glutinosa	M	0.6	6	3	3	5	3	5	40+	Poor	C	Basal Cavity	1.13 m ²
7	Oak	Quercus robur	M	1.2	15	4	7	10	10	7	40+	Good	A		4.435 m ²
8	Oak	Quercus robur	M	1.7	16	4	9	9	6	9	40+	Good	A		9.07 m ²
9	Oak	Quercus robur	M	1.2	16	5	10	10	8	10	40+	Good	A		4.52 m ²
10	Oak	Quercus robur	M	0.7	16	6	2	8	6	4	40+	Good	A		1.53 m ²
11	Crack Willow	Salix fragilis	M	0.9	3						10+	Poor	C	Crown gone, hollow trunk	2.54 m ²

Tree No.	Species (English)	Species (Latin)	Age	Dia (mm)	Ht	Cr Ht	N	S	E	W	Life expect	Condition	Life Expt	Comments	RPA
12	Crack Willow	Salix fragilis	M	1.0	14	2	7	7	7	7	40+	Reasonable	A	Leaning	3.14 m ²
Group 1 Avg	Hawthorn (c20 No.)	Crataegus monogyna	M	0.2-0.3	4 to 6						40+	Good	A		
Group 2 Avg	Alder (142 stems)	Alnus glutinosa	EM to M	0.41	8 to 14						40+	Good	A	Group of multi-stemmed alder along stream side, average height 10-15 m forming a continuous treed barrier.	

EM=Early mature ;SM= Semi mature; M=Mature; OM = Over mature.