Tree Survey: "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 1

Tree N°		Species	Height m	Trunk Diameter mm	Canopy Spread m Radial	Cat	Future Potential	Age	Comments	Action
0185		Horse Chestnut (Aesculus hippocastanum)	10.0	750	N: 6.9 S: 6.5 E: 6.2 W: 7.4	B2	Long term	SM	Located within the entrance to Peartree Cottage outside of red line area. The trunk forks at 2.2m to form four vertical stems. A 110mm dia branch emanates at 3m on the NE with a decay pocket. Dense canopy framework. Foliage shows signs of Horse Chestnut blight. Clear stem South 1.6m North 2.3m.	
0186		Ash (Fraxinus excelsior)	10.0	320	N: 4.0 S: 5.3 E: 6.7 W: 1.1	C1	Medium	SM	Located within the curtilage of Peartree Cottage adjacent garden path and outside of red line area. Comprises a line of three trees within linked canopies. High pruned to 4m on northern aspect. The trunk forks at 4m to form two leaders. Clear stem East 2.3m South 2.4m.	
0187		Ash (Fraxinus excelsior)	12.0	270	N: 4.9 S: 3.6 E: 3.0 W: Nil	C1	Medium	SM	Located within the curtilage of Peartree Cottage adjacent garden path and outside of red line area. Large dia surface root on southern aspect with mechanical damage to the bark. The trunk is kinked at 6m Attenuated specimen with lined canopy. Clear Stem North 4m South 4m.	
0188		Ash (Fraxinus excelsior)	13.0	400	N: 6.6 S: 5.3 E: 2.1 W: 5.7	C1	Medium	SM	Located within the curtilage of Peartree Cottage adjacent garden path and outside of red line area. Large dia surface root on SW with mechanical damage to the bark. There is a 1.5m vertical bark wound on the main stem on the western aspect extending from a height of 500mm above ground level. A number of fruiting bodies of the pathogen known as King Alfred's Cake (Daldinia concentrica). The trunk forks at 5m to form two stems. The southern stem sub-divides at 4m to form two leaders. Clear stem North 4m South 4m.	

Tree Survey: "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 2

Tree N^{o}		Species	Height m	Trunk Diameter mm	Canopy Spread m Radial	Cat	Future Potential	Age	Comments	Action
0189		Yew (Taxus baccata)	6.0	1x 200 1x 250 1x 350	N: 4.4 S: 4.3 E: 5.5 W: 5.6	C1	Long term	Y	Located within the curtilage of Peartree Cottage adjacent the frontage with Botley Road. A power line passes through the canopy. The trunk forks at 500mm to form two stems. **South stem:** vertical and contorted in habit. **North stem:** forks at 1m to form two stems. Dense canopy. Clear stem North 2.3m South 3m.	
0190		Goat Willow (Salix caprea)	8.0	1x 120 3x 290	N: 6.5 S: 5.1 E: 7.5 W: 4.5	**U**	Short	SM	Located on western boundary of application site. Partially collapsed. Three stems radiate on NE SE and Southern aspects of the stool and emanate at ground level to grow at 40^{0}. The southern stem as been reduced at 1.4m with regrowth present. A forth stem 120mm in dia emanates at ground level on the northern aspect. Clear stem 1m.	Fell
0191		Field Maple (Acer campestre)	10.0	3x 280	N: 4.0 S: 4.5 E: 3.5 W: 4.0	C1	Long term	Y	Located on western boundary of application site. The trunk forks at ground level to form three stems. Dense high canopy. Clear stem South 3m North 3m.	
0192		Holly (Ilex aquifolium)	6.0	300	N: 1.0 S: 1.0 E: Nil W: 2.0	**U**	Short	Y	Located on western boundary of application site. The trunk forks at 5m to form two leaders. Suppressed specimen.	Fell
0193		Monkey Puzzle (Araucaria araucana)	10.0	400	N: 3.0 Est. S: 3.0 Est. E: 4.0 Est. W: 3.0 Est.	A1	Long term	SM	Located within the curtilage of the adjacent property on Botley Road. Single Straight Stem. Clear stem 3m.	

Tree Survey: "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 3

Tree N^{o}		Species	Height m	Trunk Diameter mm	Canopy Spread m Radial	Cat	Future Potential	Age	Comments	Action
0194		Crack Willow (Salix fragilis)	12.0	1x 240 1x 280 2x 290 1x 300 2x 341 1x 390 1x 520	N: 10.1 S: 9.8 E: 9.9 W: 10.0	C1	Short	M	Located within the application site to the SW of Peartree Cottage. The tree appears to be growing above the indicated Pipe line. A large dia surface root present on the western aspect. The trunk forks at 1.2m to form nine stems. A tree house is constructed between the stems at a height of 4m.	Monitor
0195		Ash (Fraxinus excelsior)	14.0	1x 140 1x 430	N: 9.0 S: 1.0 E: 4.0 W: 6.0	C1	Short	M	Located within the SW corner of the application site within small copse with dense undergrowth. Large dia surface root on NW. The trunk forks at 1.3m to from a 140mm dia secondary stem on the Southern aspect. The main stem arches towards the NW with off set canopy. There is a 180mm dia broken branch suspended on the northern aspect at 3m.	
0196		Ash (Fraxinus excelsior)	15.0	450	N: 5.0 S: 6.0 E: 4.0 W: 5.0	B2	Long term	M	Located within the copse. Single straight ivy covered stem. High linked canopy. Clear stem 8m.	
0197		Hawthorn (Crataegus monogyna)	9.0	200	N: 1.0 S: 5.0 E: 2.0 W: 4.0	C1	Medium	SM	Located within the copse. The trunk grows at 60^{0} to the South and forks at 5m to form two leaders. Clear stem 4.5m	
0198		Hawthorn (Crataegus monogyna)	6.0	160	N: 1.0 S: 3.0 E: 1.5 W: 2.0	C1	Medium	SM	Located within the copse. The trunk forks at 4m to form two leaders. Clear stem 4m. Suppressed specimen.	
0199		Ash (Fraxinus excelsior)	15.0	450	N: 6.0 S: 7.0 E: 6.0 W: 6.0	B2	Long term	SM	Located within the copse. The curved trunk forks at 9m to form two stems. The northern stem forks again at 9.5m to form two leaders. High U shaped canopy. Clear stem 9m	

Tree Survey: "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 4

Tree N^{o}		Species	Height m	Trunk Diameter mm	Canopy Spread m Radial	Cat	Future Potential	Age	Comments	Action
0200		Ash (Fraxinus excelsior)	12.0	390	N: 7.0 S: 7.0 E: 10.0 W: Nil	C1	Medium	SM	Located on the edge of the copse. The trunk grows at 45^{0} towards the east with off set canopy. The trunk forks at 4m to form two stems. South stem: contorted in habit. Clear stem South 4m North 5.5m. A rope is wound around the trunk to form a Zip line to the Tree House within the adjacent Willow.	
0201		Hawthorn (Crataegus monogyna)	6.0	1x 120 1x 160	N: 2.5 S: 1.5 E: 4.0 W: 1.2	C1	Medium	SM	Located on the edge of the copse. The trunk forks at 1.4m to form two stems. The Southern stem is truncated with rope around both stems. Clear stem West 2.2m. Suppressed specimen.	
0202		Domestic Plum (Prunus domestica)	6.0	1x 140	N: 1.4 S: Nil E: 1.0 W: 1.4	C1	Short	SM	Grows through the canopy of the adjacent ash. Clear stem 5m. Suppressed attenuated specimen.	
0203		Ash (Fraxinus excelsior)	12.0	430	N: 3.0 S: 4.0 E: 5.0 W: 5.0	C1	Medium	SM	Located near to southern boundary. The ivy covered stem forks at 6m to form multiple leaders. Clear stem 6m.	
0204		Ash (Fraxinus excelsior)	15.0	3x 280	N: 6.0 S: 6.0 E: 4.0 W: 5.0	C1	Long term	SM	The trunk forks at ground level to form three stems. **South stem:** curves to south and forms three leaders. **Central stem:** vertical in habit and forks at 4m to form two stems. **North stem:** slight bias towards the north and forks at 4m to form three leaders. Clear stem North 1.8m South 4m.	
0205		Ash (Fraxinus excelsior)	15.0	300	N: 1.0 S: 5.0 E: 4.0 W: Nil	**U**	Short	SM	Heat damage to bark from ground level upto a height of 3m on eastern aspect. Contorted stem above 4m.	Fell

Tree Survey: "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 5

Tree N°		Species	Height m	Trunk Diameter mm	Canopy Spread m Radial	Cat	Future Potential	Age	Comments	Action
0206		Hawthorn (Crataegus monogyna)	3.0	4x 110	N: 2.5 S: 2.0 E: 1.0 W: 1.0	C1	Medium	Y	Growing beneath the ash. The trunk forks beneath 1.5m to form four stems. Branched to ground level. Dense canopy framework.	
0207		Hawthorn (Crataegus monogyna)	5.0	1x 260	N: 2.0 S: 1.5 E: 2.0 W: 1.8	C1	Long term	SM	Located adjacent to southern boundary. Multiple leaders.	
0208		Ash (Fraxinus excelsior)	4.0	480	N: 4.6 S: 5.0 E: 4.3 W: 4.3	B2	Long term	SM	The trunk forks at 3m to form one sub-dominant leader on the southern aspect and two mian stems on the North and eastern aspects. Dense canopy framework. Clear stem South 3m North 4.5m.	
0209		Oak (Quercus robur)	5.0	350	N: 6.0 S: 5.0 E: 4.5 W: 5.0	B2	Long term	Y	Located adjacent to the boundary with Blind Lane. The trunk forks at 2.5m to form two stems. East stem: kinked at 2.6m. Dense canopy framework. Clear stem North 1.6m South 1.5m.	
0210		Oak (Quercus robur)	13.0	200	N: 4.5 S: 5.0 E: 5.1 W: Nil	B2	Long term	SM	Located on frontage with Blind Lane with ditch on southern aspect. Forms linked feature with 0211. Clear stem South 2m.	
0211		Oak (Quercus robur)	13.0	2x 300	N: 1.0 S: 4.0 E: 4.0 W: 4.0	B2	Long term	SM	Located on frontage with Blind Lane and adjacent to access drive leading to "Orchard Acre" with ditch on southern aspect. The trunk forks at 1.2m to form two stems, both sub-divide above 2.2m to form multiple vertical stems. Forms linked feature with 0210. Clear stem South 2m.	

TREE ROOT PROTECTION

Site "The Orchard " Land adjacent to Pear tree Cottage Blind Lane West End Southampton SO30 2HJ September 2014 pg 6

Calculation Table for Root Protection BS 5837 2012 + Rounded up - Rounded down

Tree N^{o}	Species	Stem Diameter @ 1.5m (mm)	Multi-stem	Circle Radius (m)	Root Protection Area (m^2)	Comments
0185	H/c	750	-	9.00	255	
0186	Ash	325+	-	3.90	48	
0187	Ash	275+	-	3.30	41	
0188	Ash	400	-	4.80	72	
0189	Yew	-	475+	5.70	102	1x 200 1x 250 1x 350
0190	Goat Willow	-	-	-	-	Cat U
0191	Field maple	-	475-	5.70	102	3x 280
0192	Holly	-	-	-	-	Cat U
0193	Monkey Puzzle	400	-	4.80	72	
0194	Willow	-	1000+	12.0	452	9 stems
0195	Ash	-	450-	5.40	92	1x 140 1x 430
0196	Ash	450	-	5.40	92	
0197	Hawthorn	200	-	2.40	18	
0198	Hawthorn	150-	-	1.80	10	
0199	Ash	450	-	5.40	92	
0200	Ash	400+	-	4.80	72	
0201	Hawthorn	-	200	2.40	18	1x 120 1x 160
0202	Plum	150+	-	1.80	10	
0203	Ash	425-	-	5.10	81	
0204	Ash	-	475-	5.70	102	3x 280
0205	Ash	-	-	-	-	Cat U
0206	Hawthorn	-	225+	2.70	23	4x 110
0207	Hawthorn	250-	-	3.00	28	
0208	Ash	350	-	4.20	55	
0209	Oak	475-	-	5.70	102	
0210	Oak	200	-	2.40	18	
0211	Oak	-	500-	6.00	113	3x 300

BS 58237 2012 Tree categories pg 7

TREES FOR REMOVAL				
Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention				
Category U Those in such a condition that that they cannot be realistically be retained as living trees in the context of the current land use for longer than 10 years	▪ Trees that have a serious, irremediable, structural defect such that their early loss is expected due to collapse including those that will become unviable after removing other U category trees (i.e. where for what so ever reason the loss of companion shelter cannot be mitigated by pruning). ▪ Trees that are dead or showing signs of significant immediate and irreversible overall decline. ▪ Trees infected with pathogens of significance to the health and or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality. Note: Category U trees can have existing or potential conservation value which might be desirable to preserve See **4.5.7** of the standard			**DARK RED**
	1 mainly **arboricultura**l values	2 mainly **landscap**e values	3 mainly **cultural** values including conservation	
Trees to be considered for retention				
Category A **Trees of high quality** with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species especially if rare or unusual; or those that essential components of groups or formal or semi-formal arboricultural features. (e.g. the dominant and / or principle trees within an avenue).	Trees groups or woodlands of particular visual importance arboricultural and / or landscape features.	Trees groups or woodlands of significant conservation historical commemorative or other value (i.e. veteran trees or wood-pasture)	**LIGHT GREEN**
Category B **Those of moderate quality** with an estimated life expectancy of at least 20 years	Trees that might be included in Category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects including unsympathetic past management and storm damage). Such that they are unlikely to be suitable for retention for beyond 40 years; or tree lacking the special quality necessary to merit the category A designation	Trees present in numbers usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individually; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or woodland pasture).	**MID BLUE**
Category C **Trees of low quality** with an **quality** with an estimated 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 present in groups or woodlands but without this conferring on them significant greater collective value and / or trees offering low or only temporary / transient landscape benefits.	Trees with no material conservation or other cultural benefits.	**GREY**

Report and Assessment

of

T. P. Marsh

Qualifications and Experience

My professional qualifications are:

Royal Forestry Society Certificate in Arboriculture

Surrey County Certificate in Arboriculture (Credit)

National Certificate in General Horticulture

Yorkshire County Certificate General Horticulture

I entered the private sector in 2002 having previously been professionally employed as an Arboricultural Officer in Local Government for twenty-eight years, twenty-four years of which have been within a Planning Department.
Post 2002 I have undertaken Arboricultural Consultancy within both the Public and Private sectors.

SUMMARY:

- The compilation of this document was undertaken to accompany the planning application for detached dwelling
- The majority of the trees within the site comprise native species
- The condition of a small number of trees highlighted within the survey schedule is such that they should be considered for removal.
- The condition of the large multi-stemmed Willow 0194 within which a tree house has been erected and play equipment attached should be monitored on a regular basis.

SURVEY NOTES

I carried out my inspection in September 2014 with my observations being made from ground level. The survey involved a visual inspection of the trunk, together with major branches and forks of the canopy. This examination was undertaken with the assistance of binoculars where necessary. Access to trees located off the site was not available and therefore any observations made relating to these trees are confined to those available from within the survey area.

The trees within the site have been tagged utilising consecutively numbered alloy discs. Their identification number is annotated on the submitted plan together with their approximate position. This drawing is located in the appendices drawing number TM-658-01 and based on the topographical survey undertaken by P Stubbington Land Surveys Ltd.

The height measurements are approximations and have not been calculated using a clinometer. Where the canopy extends over an adjacent property or in some cases where the understorey is very dense, the canopy spread has been estimated and stated as such within the tree schedule.

This report is based on the condition of the tree at the time of inspection. Trees are dynamic and their condition changes throughout their lives. No inspection has been made of the soil structure. No account has been taken of the possible effects of the tree/s or their removal directly or indirectly on any building/s or structures relating to the possibility of subsidence or heave. Regular inspections of the tree/s should be undertaken to monitor their health and determine appropriate management.

This report is to be used for the purposes for which it is prepared as specified at the beginning of this summary.

TREE SURVEY DEFINITIONS:

An assessment was made on the condition of the trees and the recommendations stated are based on the finding of the inspection. The following headings have been used for ease of reference;-

SPECIES Both common English name and Botanical name have been stated.

CATEGORY Utilises the British Standard formula found in BS 5837: 2012
Trees in relation to design demolition and construction – Recommendations (see cascade table)

AGE CLASSIFICATION

YOUNG;	Less than 1/3 life expectancy.	**(Y)**
SEMI-MATURE;	1/3 to 2/3 life expectancy.	**(SM)**
MATURE;	Over 2/3 life expectancy.	**(M)**
OVER MATURE;	Mature and in a state of decline	**(OM**

FUTURE POTENTIAL

Nil;	Should be removed or less than 10 years
Short term;	10-20 years.
Medium term;	20-40 years.
Long term;	40 years plus.

ROOT PROTECTION AREAS Utilises the British Standard formula found in BS 5837: 2012
Trees in relation to design demolition and construction – Recommendations