

# BATSON

Landscape & Tree Care Ltd.

# Arboricultural Impact Assessment Tree Report Former 'Be Modern' Site Western Approach, South Shields



Client: Travis Perkins Date: 3<sup>rd</sup> August 2015 Our ref: 0007697

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# 1.0 General

- **1.1** The former 'Be Modern Ltd.' property is now under ownership of the 'Travis Perkins plc' retail company. It is proposed to create a 'Small Trade Park', which will include the demolition of some existing structures.
- **1.2** There are trees growing within the property, and it has been requested that an Arboricultural Tree Report and Constraints Plan be prepared. The report will outline the effects the proposals may have upon the trees, together with recommendations for tree protection.

# 2.0 Location

**2.1** The former 'Be Modern Ltd' property is located at the northern end of Western Approach, and southwest of the roundabout, between Station Road and Crossgate (Grid Ref. X: 436187 – Y: 566521).



Google



# 3.0 Purpose & Use of Report

- **3.1** The purpose of the report is to assess the trees' current Health & Condition; together with the impact the proposed development may have upon them.
- **3.2** The report meets the requirements set out within BS 5837:2012, and may be used by the Client, Architect and Local Planning Authority, for guidance purposes, in determining the Application.
- **3.3** This report will:
  - 3.3.1 Assess the health, condition, retention value and other attributes of trees.
  - 3.3.2 Assess the visual amenity and landscape value of the trees.
  - 3.3.3 Assess existing constraints which may affect the trees' future health and condition.
  - 3.3.4 Indicate the Root Protection Area of individual trees.

# 4.0 Site Survey

- **4.1** The site was visited on the 14<sup>th</sup> July 2015, and revisited on the 27<sup>th</sup> July 2015. At the time of the inspection, weather conditions were wet and overcast. Visibility however, was not impaired.
- 4.2 The Report has been prepared on the basis of observations made during inspection.
- 4.3 Appropriate tools and equipment were used to gather information from ground level.
- 4.4 No diagnostic tools were used during inspection.
- **4.5** It should be noted that, trees are dynamic organisms and as such, are subject to change. Details recorded during inspection, form the basis of the Tree Schedule (Para. 8.0).

# 5.0 Site Observations

- **5.1** The former 'Be Modern' site is located within a high density, urban area within the town of South Shields, South Tyneside.
- **5.2** The property is comprised of warehouse type buildings, access paths and roads, car-park, tree and shrub borders, and an area of dense, overgrown scrubland.
- 5.3 The warehouse type buildings are located towards the centre of the property.
- **5.4** Public Footpaths are located adjacent to the northern and southern elevations of the main building.



- **5.4.1** There is evidence of cracks and undulations within the Public Footpath, east of the property.
- **5.5** There is a vehicular access road, which runs adjacent to the west and south-eastern elevation of the main building.
- **5.6** There are 2 small parking areas, located immediately adjacent to the eastern elevation of the main building.
- **5.7** A grass border, comprising of mixed species and age class trees, lies immediately west of the Public Footpath.
- **5.8** An open, grass space is located towards the north of the grass border, and comprises of mixed species and age class trees.
- **5.9** An area of unmaintained scrubland, consisting of poor quality, self sown trees, shrubs and understory vegetation is located at the northeast end of the property.
- **5.10** Public Highways, Western Approach and Tudor Road, run immediately adjacent to the eastern and southern boundaries of the property.
- 5.11 Vehicular access into the property is via the southern elevation of the building, off Tudor Road.
- 5.12 The general topography of the site is level.
- 5.13 It is the trees growing within the property which form the main subjects of this Report.

# 6.0 Wildlife Activity Within and Around the Trees

- 6.1 At the time of inspection, there was evidence of bird activity within and around the site.
- **6.2** There was no evidence of bat activity at the time of inspection, or readily visible hollows, breakout cavities etc. which may act as Bat Roosts.
- **6.3** Due to the nature, character and location of the site, it is highly probable that there may be a presence of small mammals.

# 7.0 Tree Survey

- 7.1 For the purpose of this Report, individual specimen trees within the site will be referenced with a 'T' prefix and number (e.g. T1).
- 7.2 The position of individual trees are encircled in black is on Plan Dwg. No. 0007697/P1.



8.0 Tree Schedule

Tree ID: T0127 Species: Black Cherry Prunus serotina	Tag : TPO :	0127	Assessor: Ryan D Inspected: 14 July Next Insp: Not Re 1st Branch: 2 N	Dodds / 2015 equired			Со	Bats : ns Area :	Unki N	nown Io
Stems Health		RP	1		⊢ Cle	earance (	m) —	<mark>⊢_S</mark> p	read (m)	)
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC	A (m²) R (m)	Site Status	Priority	Ν	E S	w	N	E S	w
7.5 1 445 Mature Fair Fair Fair Fair	B.1 10 to 20 yrs	89.6 5.34	Pre Construction	6 Months	1.5	3 1.5	2	4.5	4 5	5
Tree Comment: Relatively healthy in appearance.         Clear stem up to 2.5m HGL where branching system form         Minor bark wounds on main stem.         Dense canopy with evidence of poor pruning works.         Minor deadwood and snags within canopy.         Tight unions within canopy.         Survey Comment: Root containment by footpath to east and access road to	to west.									
Work Category Action Remove Minor dead wood Remove Stubs			Th V no	ree T0127 – Viewed from ortheast		-				
Tree ID: T0128	Tag :	0128	Assessor : Ryan [	Dodds				Bats	: Unk	nown
Tree ID: T0128 Species: Black Cherry	Tag : TPO :	0128	Assessor: Ryan I Inspected: 14 July	Dodds y 2015			Co	Bats ns Area	: Unk :	known No
Tree ID: T0128 Species: Black Cherry Prunus serotina	Tag : TPO :	0128	Assessor: Ryan I Inspected: 14 July Next Insp: Not Re	Dodds y 2015 equired			Co	Bats ns Area	: Unk	known No
Tree ID : T0128 Species : Black Cherry Prunus serotina	Tag : TPO :	0128	Assessor: Ryan I Inspected: 14 July Next Insp: Not Re 1st Branch: 2.2 NV	Dodds y 2015 equired W		0757050	Co	Bats ns Area	: Unk	known No
Tree ID: T0128 Species: Black Cherry Prunus serotina Stems H (m) No Fa Ø (mm) Maturity Crown Stem Bacal Phy Con	Tag: TPO:	0128	Assessor : Ryan I Inspected : 14 July Next Insp : Not Re Ist Branch: 2.2 NV	Dodds y 2015 equired W Priority	⊢ ci	earance (	Co (m) —	Bats ns Area ⊨Sp	: Unk : I	nown No
Tree ID : T0128 Species : Black Cherry Prunus serotina  Stems Health H (m) No Eq Ø (mm) Maturity Crown Stem Basal Phy Con 7.8 2 340 Mature Fair Poor Fair Fair	Tag :           TPO :           Cat         ERC           C.1         <10 yrs	0128	Assessor : Ryan I Inspected : 14 July Next Insp : Not Re 1st Branch: 2.2 NV Site Status Pre Construction	Dodds y 2015 equired W Priority 6 Months	⊢ CI N 1	earance ( E S 2 3	Co (m) → 8 W 2	Bats ns Area  Sp N 5	: Unk : I pread (m E 5 6 4.5	mown No )
Tree ID:       T0128         Species:       Black Cherry         Prunus serotina         H (m) No Eq Ø (mm) Maturity Crown Stem Basal Phy Con         7.8       2         340       Mature Fair Poor Fair Fair         Tree Comment:       Reasonably healthy in appearance, with well formed b         Poor quality, distorted stem.       Well developed epicormic shoot at 0.5m HGL, with tigh Codominant stems form at approx. 1.5m HGL.         Sparse branching system.       Poor pruning works within canopy, with remaining sna Minor wounds and lesions on stem and branches.	Tag : TPO : Cat ERC C.1 <10 yrs outtress roots. ht union on SW sid	0128	Assessor : Ryan I Inspected : 14 Juh Next Insp : Not Re Ist Branch: 2.2 NV Site Status Pre Construction	Dodds y 2015 equired W <b>Priority</b> 6 Months	⊢ Cl N 1	earance ( E S 2 3	Ca (m)	Bats ns Area  Sp N 5	: Unk : oread (m E \$ 6 4.5	nown No <b>)</b> <b>5 W</b> 5 4.5
Tree ID:       T0128         Species:       Black Cherry         Prunus serotina         H (m) No Eq Ø (mm) Maturity Crown Stem Basal Phy Con         7.8       2         340       Mature         Fair       Poor         Tree Comment:       Reasonably healthy in appearance, with well formed b         Poor quality, distorted stem.       Well developed epicormic shoot at 0.5m HGL, with tight Codominant stems form at approx. 1.5m HGL.         Sparse branching system.       Poor pruning works within canopy, with remaining sna Minor wounds and lesions on stem and branches.         Survey Comment:       Root containment by footpath to east and access road         Work Category       Action	Tag : TPO : Cat ERC C.1 <10 yrs outtress roots. ht union on SW sid ags. ad to west.	0128	Assessor : Ryan I Inspected : 14 July Next Insp : Not Re 1st Branch: 2.2 NV Site Status Pre Construction	Dodds y 2015 equired W Priority 6 Months Tree T0128 – Viewed from	⊢ Cl N 1	earance ( E S 2 3	Co (m)	Bats ns Area  Sp N 5	: Unk : Information : Informat	snown No 5 W 5 4.5

Tree ID : T0129				Та	a:	0129		Assessor : Rvan	Dodds					Bat	s ·	Unkno	nwn
Species : Mountain Ash				ТР	0:			Inspected : 14 Ju	ly 2015				Co	ns Are	a:	No	)
Sorbus aucuparia								Next Insp : Not F	Required								
								1st Branch: 2 SE									
Stems-	Н не	ealth —				⊢ R	р ——			$\vdash$	Cleara	nce (m	) —	⊢-€	Spread	1 (m) -	
H (m) No Ø (mm) Maturity	Crown Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	Ν	Ε	s	w	Ν	Ε	S	w
6 1 273 Mature	Fair Fair	Fair	Fair	B.1	10 to 20 yrs	33.7	3.27	Pre Construction	6 Months	1.7	1.7	1.7	1.7	3.5	3.5	3	3
Tree Comment: Relatively heal 2 stems form a Relatively well Multiple stems Evidence of pr Area of deadw Survey Comment: Root contai Work Category Action Remove Minor dead wood	Ithy in appearance at 1.3m HGL with balanced canopy. form at 2.2m HG evious pruning on rood within canopy nment by footpath	e. very tigh L. stem an y. n to east :	it union. Id within ca and access	nopy. Froad t	to west.				Tree T0129 – Viewed from northeast	7							
													-	Concession of the local division of the loca			
Tree ID: T0130				Т	ag :	0130		Assessor : Rya	n Dodds				-	Ba	ts :	Unkr	nown
Tree ID : T0130 Species : Mountain Ash				т	ag : PO :	0130		Assessor: Rya Inspected: 141	n Dodds July 2015				C	Ba ions Ar	ts : ea :	Unkr	nown Io
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia				T TI	ag: PO:	0130		Assessor: Rya Inspected: 14 Next Insp: Not	n Dodds July 2015 Required				C	Ba ions Are	ts : ea :	Unkr	nown Io
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia				T TI	ag: PO:	0130		Assessor: Rya Inspected: 14: Next Insp: Not 1st Branch: 2 E	n Dodds July 2015 :Required				C	Ba ons Are	ts : ea :	Unkr	nown Io
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia		Health —		т ті	ag: PO:	0130	RP —	Assessor : Rya Inspected : 14: Next Insp : Not 1st Branch: 2 E	n Dodds July 2015 :Required		Cleara	ance (r	C m) —	Ba cons An	ts : ea : Sprea	Unkr N nd (m)	nown Io
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia H (m) No Ø (mm) Maturity	⊢ ⊦ v Crown Stem	Health — 1 Basal	l Phy Con	T. TI	ag: PO: ERC	0130	RP — R (m	Assessor : Rya Inspected : 14 J Next Insp : Not 1st Branch: 2 E ) Site Status	n Dodds July 2015 Required <b>Priority</b>		Clear	ance (r S	0 17	Ba cons Arc	ts : ea : Sprea E	Unkr N nd (m) S	nown lo W
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia H (m) No Ø (mm) Maturity 6 1 213 Mature	⊢F <b>Crown Ste</b> m Fair Fair	Health — 1 Basal Good	<b>I Phy Con</b> d Fair	T TI Cat B.1	ag : PO : ERC <10 yrs	0130	RP —— R (m) 2.55	Assessor : Rya Inspected : 14 : Next Insp : Not Ist Branch: 2 E Site Status Pre Construction	n Dodds July 2015 :Required <b>Priority</b> 6 Months	⊢ N 2	Cleara E 2.1	ance (r S 2.1	0 m) — W 1.7	Ba cons Ard	ts : ea : Sprea E 3.5	Unkr N od (m) S 3.5	nown lo W 3
Tree ID : T0130 Species : Mountain Ash Sorbus aucuparia H (m) No Ø (mm) Maturity 6 1 213 Mature Tree Comment : Relatively hea Branching syst Evidence of pr Deadwood and Canopy toward Survey Comment : Root contain	Fair Fair Fair Fair Ithy in appearance tem forms at 2.2n revious pruning wi d snags evident w ds east overhangs nment by footpath	Health — Good a. n HGL wit thin cano ithin cano ithin cano i adjacent	I Phy Con d Fair dh tight unio opy. t path. and access i	T T Cat B.1 ons.	ag : PO : ERC <10 yrs	0130	RP — R (m) 2.55	Assessor : Rya Inspected : 14 : Next Insp : Not Ist Branch: 2 E Site Status Pre Construction	n Dodds July 2015 :Required <b>Priority</b> 6 Months	⊢ N 2	Cleara E 2.1	ance (r s 2.1	C m) → W 1.7	Ba cons Ar N 3	ts : ea : Sprea E 3.5	Unkr N dd (m) S 3.5	nown lo W 3

Tree ID: T0131 Species: Mountain Ash Sorbus aucuparia	Tag: 0131 TPO:	Assessor: Ryan Dodds Inspected: 14 July 2015 Next Insp: Not Required 1st Branch: 2 W	Bats: Unknown Cons Area: No
Stems Health			├─ Clearance (m) → └── Spread (m) —
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC A (m²) R	(m) Site Status Priority	NESWNESW
5.5 1 203 Mature Fair Good Fair Fair	B.1 <10 yrs 18.6 2	.43 Pre Construction 6 Months	2 2 1.8 2 3.5 3.5 3 3.5
Tree Comment: Relatively healthy in appearance. Codominant stem forms at 2.1m HGL with tight unio Minor epicormic growths at base of stem on western Relatively well balanced canopy with minor deadwoo Evidence of previous pruning on codominant stems a Survey Comment: Root containment by footpath to east and access	on. h side. od and snags. and within canopy. road to west.		
Work Category         Action           Remove         Deadwood and snags           Remove         Epicormic growths		Tree T0131 – Viewed from northeast	
Tree ID: T0132	Tag: 0132	Assessor: Ryan Dodds	Bats : Unknown
Species : Grey Poplar	TPO:	Inspected: 14 July 2015	Cons Area : No
Populus canescens		Next Insp: Not Required	
Stome		1st Branch: 8 N	Clearance (m) Spread (m)
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC A (m <sup>2</sup> ) R	(m) Site Status Priority	
20 1 945 Mature Good Good Fair Good	B.1 10 to 20 yrs 404 11	.34 Pre Construction 6 Months	5.5 2.5 4.5 2.5 7 8 10 7.5
<ul> <li>Tree Comment: Dominant specimen, relatively healthy in appearance 5 codominant stems form at 3m HGL with included b Relatively healthy canopy overhangs adjacent path a Evidence of previous pruning within canopy. Minor deadwood and snags within canopy.</li> <li>Survey Comment: Root containment by footpath to east and access to a statement of the section of the se</li></ul>	e. park at POU. Ind building. road to west.		
w Lot in			

Tree ID: T0133 Species: Norwa Acer p	3 ay Maple <i>olatanoides</i>					Ta TP	ag: XO:	0133		Assessor: Ryan D Inspected: 14 July Next Insp: Not Re 1st Branch: 2 S	Oodds / 2015 equired			С	Ba ons Are	ts : ea :	Unknown No
Stem:	15	<b></b>	— Нея	alth —		4		F I	RP			⊢ ci	earan	ce (m) —	⊢	Spread	d (m)
H(m) No Ø	(mm) Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m <sup>2</sup> )	 R (m)	Site Status	Priority	N	Ε	s w	Ň	E	s w
8 1 19	97 Semi-mature	Fair	Good	Good	Good	B.1	20 to 40 yrs	5 17.6	2.36	Pre Construction	6 Months	2.5	3	4 4	4	4.5	3.5 3
Tree Comment:	Relatively healthy Clear stem up to 1 Canopy, healthy in Canopy towards e	in appear 2m HGL v n appeara east overh	rance. where coo ince with angs adja	dominant dense fi acent pa	t stems for oliage. Ith and in (	rm (inc contact	luded bark a t with road si	t POU). ign.								Ť.	
Survey Commen	It: Root containme	ent by foo	tpath to (	east and	access ro	ad to v	vest.										Staff we staff
Work Category A Cut back growth F	<b>Action</b> From Road Sign										Tree View west	T0133 ved fron	- 1		YT	F	
Tree ID : T0134	1					Т	aa .	0134		Accessor · Ryan	Dodds				Ba	te ·	Unknown
Tree ID: T0134 Species: Comm	4 non Ash					Ta Te	ag: 20:	0134		Assessor : Ryan I Inspected : 14 Jul	Dodds			(	Ba Cons Ar	its : ea :	Unknown
Tree ID: T0134 Species: Comm Fraxin	4 non Ash <i>nus excelsior</i>					Ta Te	ag: 20:	0134		Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R	Dodds y 2015 equired			c	Ba Cons Ar	its : ea :	Unknown No
Tree ID: T0134 Species: Comm Fraxin	4 non Ash n <i>us excelsior</i>					Ta TF	ag: XO:	0134		Assessor: Ryan I Inspected: 14 Jul Next Insp: Not R 1st Branch: 8 SW	Dodds y 2015 equired			G	Ba Cons Ar	its : ea :	Unknown No
Tree ID : T0134 Species : Comm Fraxin	4 non Ash <i>nus excelsior</i>	<b></b>	Hee	alth —		Ta TF	ag: XO:	0134	RD	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R 1st Branch: 8 SW	Dodds y 2015 equired	⊢ c	learan	( ce (m) —	Ba Cons Ar	its : ea : .Sprea	Unknown No d (m)
Tree ID : T0134 Species : Comm Fraxin ⊢ Steme H (m) No Ø	4 non Ash <i>nus excelsior</i> ns  (mm) Maturity	Crown	—— Hea	alth — Basal	Phy Con	Ta TF Cat	ag: 20: ERC	0134	RP R (m)	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R 1st Branch: 8 SW Site Status	Dodds y 2015 equired <b>Priority</b>	⊢ c	learan E	( ce (m) — S W	Ba Cons Ar	its : ea : Spread E	Unknown No d (m)
Tree ID :         T0134           Species :         Comm           Fraxin         Fraxin           H (m)         No         Ø           16         1         42	4 non Ash n <i>us excelsior</i> ns	Crown Fair	Hea Stem Good	alth — Basal Good	Phy Con Fair	Ta TF Cat B.1	ag: 20: ERC >40 yrs	0134 A (m <sup>2</sup> ) 82.1	RP R (m) 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R 1st Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months	⊢ C N 10	learan E 1	( nce (m) — S W 1 8	Ba Cons Ar	nts : ea : Spread E 8	Unknown No d (m) — – – – – – – – – – – – – – – – – – –
Tree ID: T0134 Species: Comm Fraxin ⊢ Steme H (m) No Ø 16 1 42 Tree Comment:	4 non Ash nus excelsior (mm) Maturity 26 Mature : Relatively healthy Poor shape form Well formed butto Clear stem up to Low hanging can Canopy to west of Dense branching Evidence of previ	Crown Fair r in appeal and chara ress roots. 2.5m HGL opy towar werhangs system w ous prunir	Here Stem Good rance. cter for s where c ds SE. building. ith minor ng within	alth — Basal Good species. odomina dea dwo canopy.	Phy Con Fair ant stem fo	Ta TF Cat B.1 orms.	ag: 20: ERC >40 yrs	0134	RP —— <b>R (m)</b> 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months	⊢ C N 10	learan E 1	( ce (m) — S W 1 8	Ba Cons Ar	nts : ea : Sprea E 8	Unknown No d (m) —   S W 6 6
Tree ID : T0134 Species : Comm Fraxin H (m) No Ø 16 1 42 Tree Comment : Survey Commen	Anon Ash Ans excelsion As Ans (mm) Maturity Comm) Maturity Common Mature Relatively healthy Poor shape form Well formed butt Clear stem up to Low hanging can Canopy to west o Dense branching Evidence of previon Canopy to containment	Crown Fair / in appeal and chara ress roots. 2.5m HGL opy towar werhangs system w ous prunin ent by bui	Hea Stem Good rance.	alth — Basal Good species. codomina deadwo canopy. vest and	Phy Con Fair ant stem fo pod and sn hard surfa	Ta TF Cat B.1 orms. ags.	ag: 20: ERC >40 yrs	0134	RP — R (m) 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R 1st Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months		learan E 1	cce (m) — S W 1 8	Ba Cons Ar	nts : ea : Spread E 8	Unknown No d (m) —   S W 6 6
Tree ID : T0134 Species : Comm Fraxin H (m) No Ø 16 1 42 Tree Comment : Survey Commen Work Category		Crown Fair / in appeal and chara ress roots. 2.5m HGL opy towar werhangs system w ous prunin ent by bui	Hea Stem Good rance. .cter for s . where c ds SE. building. ith minor ng within Iding to v	alth — Basal Good species. odomina canopy. vest and	Phy Con Fair ant stem fo bod and sn hard surfa	Ta TF Cat B.1 orms. ags.	ag : ×0 : ERC >40 yrs	0134	RP — R (m) 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months		learan E 1	ce (m) — S W 1 8	Ba Cons Ar	nts : ea : Sprea 8	Unknown No d (m) —   S W 6 6
Tree ID : T0134 Species : Comm Fraxin H (m) No Ø 16 1 42 Tree Comment : Survey Commen Work Category Prune Prune		Crown Fair in appear and chara ress roots. 2.5m HGL opy towar werhangs system w ous prunin ent by bui ructur e/tre	Her Stem Good rance. cter for s where c ds SE. building, with minor ng within lding to v	aith — Basai Good species. odomina canopy. vest and m	Phy Con Fair ant stem fo bod and sn hard surfa	Ta TF Cat B.1 orms. ags.	ag : PO : ERC >40 yrs	0134	RP — R (m) 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months		learan E 1	ce (m) s w 1 8	Ba Cons Ar	nts : ea : Spread 8	Unknown No d (m)
Tree ID : T0134 Species : Comm Fraxin 	4 mon Ash <i>nus excelsior</i> 15 16 (mm) Maturity 26 Mature 26 Mature 26 Relatively healthy Poor shape form Well formed butto Clear stem up to Low hanging can Canopy to west of Dense branching Evidence of previ mt: Root containment Action From buildings/sto Deadwood and sr To 2.5m	Crown Fair / in appeal and chara ress roots, 2.5m HGL opy towar werhangs system w ous prunin ent by buil ent by buil	Here Stem Good rance. cter for s	alth — Basal Good species. odomina deadwo canopy. vest and m	Phy Con Fair ant stem fo ood and sn hard surfa	Ta TF Cat B.1 orms. ags.	ag : XO : ERC >40 yrs	0134	RP — R (m) 5.11	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 8 SW Site Status Pre Construction	Dodds y 2015 equired <b>Priority</b> 6 Months F0134 – ed from		learan E 1	ce (m) — s w 1 8	Ba Cons Ar	nts : ea : Spread 8	Unknown No d (m)

Tree ID : T0135 Species : Common Ash Fraxinus excelsior	Tag : TPO :	0135	Assessor: Ryan Inspected: 14 J Next Insp: Not 1st Branch: 4.5	n Dodds uly 2015 Required SE				Cons /	Bats : Area :	Unknown No
Stems Health			ł		⊢ Cle	earanco	e (m) –	$+ \vdash$	— Sprea	nd (m) ——
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC	A (m²) R (m)	Site Status	Priority	N	E	s v	N I	N E	S W
14.5 1 318 Mature Poor Good Good Fair	C.1 20 to 40 yrs	45.8 3.81	Pre Construction	6 Months	8	12	8 9	) 5	5 4	4 4
Tree Comment: Poor quality specimen. Clear stem to 4.5m HGL where co-dominant stems form Relatively sparse branching system. Minor deadwood and snags within canopy. Evidence of previous pruning. Canopy to west overhangs adjacent building.	n.									
Survey Comment: Root containment by building to west.					137		100 A			
Work Category Action Remove Deadwood and snags				Tree T0135 – Viewed from east		Y				
Tree ID : T0136 Species : Common Ash Fraxinus excelsior	Tag : TPO :	0136	Assessor: Rya Inspected: 14 J Next Insp: Not	n Dodds Iuly 2015 Required				Cons	Bats : Area :	Unknown No
Tree ID : T0136 Species : Common Ash Fraxinus excelsior	Tag : TPO :	0136	Assessor: Rya Inspected: 14J Next Insp: Not 1st Branch: 4E	n Dodds Iuly 2015 Required	⊢ d	earanc	xe (m) -	Cons /	Bats : Area : — Sprea	Unknown No ad (m)
Tree ID : T0136 Species : Common Ash Fraxinus excelsior Stems Health H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Tag : TPO : Cat ERC	0136 ├─── RP ─── A (m²) R (m)	Assessor : Rya Inspected : 14 J Next Insp : Not 1st Branch: 4 E Site Status	n Dodds Iuly 2015 Required <b>Priority</b>	⊢ cl	earanc E	xe(m)_ S\	Cons / ⊢⊢	Bats : Area : — Sprea N E	Unknown No ad (m) ——  S W
Tree ID : T0136 Species : Common Ash Fraxinus excelsior Health H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con 15 1 509 Mature Poor Good Good Poor	Tag :           TPO :           Cat         ERC           C.1         20 to 40 yrs	0136	Assessor : Rya Inspected : 14 J Next Insp : Not 1st Branch: 4 E Site Status Pre Construction	n Dodds Iuly 2015 Required <b>Priority</b> 6 Months	⊢ CI N 8	earanc E 5	e (m) - S V 2 7	Cons	Bats : Area : Sprea N E 5 6	Unknown No ad (m.) — – – – – – – – – – – – – – – – – – –
Tree ID: T0136         Species: Common Ash         Fraxinus excelsior	Tag : TPO : Cat ERC C.1 20 to 40 yrs	0136 ├── RP ── A (m²) R (m) 5 117.2 6.1	Assessor : Rya Inspected : 14 J Next Insp : Not 1st Branch: 4 E Site Status Pre Construction	n Dodds Iuly 2015 Required <b>Priority</b> 6 Months Tree T0136 –	⊢ cl N 8	earanc E 5	e (m) – S V 2 7		Bats : Area : 	Unknown No ad (m) — 1 S W 8 6
Tree ID: T0136         Species: Common Ash         Fraxinus excelsior            H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con         15       1         509       Mature         Poor Good Good Poor         Tree Comment: Poor quality specimen.         Poor shape form and character for species.         Stem leans marginally towards southeast.         Co-dominant stems form at 4m HGL.         Majority of canopy leans towards southeast, with low         Major deadwood and snags within canopy towards no         Evidence of previous pruning.         Survey Comment: Root containment by building to west.         Work Category Action         Remove Deadwood and space	Tag : TPO : Cat ERC C.1 20 to 40 yrs	0136 ├── RP ── A (m²) R (m) 5 117.2 6.1	Assessor : Rya Inspected : 14 J Next Insp : Not 1st Branch: 4 E Site Status Pre Construction	n Dodds luly 2015 Required <b>Priority</b> 6 Months Tree T0136 – Viewed from	⊢ CI N 8	earance E 5	e (m) – S V 2 7		Bats : Area : Sprea N E 5 6	Unknown No ad (m) — 8 6

Tree ID : T0137 Species : Norway Maple Acer platanoides	Tag : TPO :	0137	Assessor: Ryan Do Inspected: 14 July 2 Next Insp: Not Req 1st Branch: 2.55	odds 2015 uired			Con	Bats : s Area :	Unknown No
Stems Health			ISC DIAIRCII. 3 SE		- Clear	rance (m)	) —		ad (m)
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC	A (m <sup>2</sup> ) R (m)	Site Status	Priority	N E	S S	w	N E	s w
14 1 240 Mature Good Fair Good Good	B.1 20 to 40 yrs	26.1 2.88	Pre Construction	6 Months	3.5 4	3.5	4	5 6.5	63
Tree Comment: Relatively healthy in appearance. Minor splits and wounds on main stem. Clear stem to 3m HGL where branching system form 2 No. branches to south, growing tightly together. Minor deadwood and snags. Canopy overhangs adjacent path.	15.						10		
Survey Comment: Root containment by footpath to east. Work Category Action Remove Deadwood and snags					Tree T013 Viewed fre east	37 – om	Ň		
Tree ID: T0138	Tao :	0138	Assessor : Rvan Do	odds				Bats :	Unknown
Tree ID: T0138 Species: Common Ash	Tag : TPO :	0138	Assessor: Ryan Do Inspected: 14 July 2	odds 2015			Con	Bats : is Area :	Unknown No
Tree ID : T0138 Species : Common Ash Fraxinus excelsion	Tag : TPO :	0138	Assessor: Ryan Do Inspected: 14 July 2 Next Insp: Not Req	odds 2015 uired			Con	Bats : Is Area :	Unknown No
Tree ID : T0138 Species : Common Ash Fraxinus excelsion	Tag : TPO :	0138	Assessor: Ryan Do Inspected: 14 July 3 Next Insp: Not Req 1st Branch: 3 NE	odds 2015 uired			Con	Bats : is Area :	Unknown No
Tree ID : T0138 Species : Common Ash Fraxinus excelsior	Tag : TPO :	0138	Assessor : Ryan Do Inspected : 14 July 3 Next Insp : Not Req Ist Branch: 3 NE	odds 2015 uired	⊢ Clear	rance (m)	Con	Bats : Is Area :  Sprea	Unknown No ad (m) ——
Tree ID : T0138 Species : Common Ash Fraxinus excelsior Health H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con 15 1 397 Mature Fair Good Good Fair	Tag :           TPO :           Cat         ERC           C.1         20 to 40 vrs	0138	Assessor : Ryan Do Inspected : 14 July : Next Insp : Not Req 1st Branch: 3 NE Site Status Pre Construction	odds 2015 uired <b>Priority</b> N/A	⊢ Clear N E 2 5	rance (m) E <b>S</b> 4	Con )  ₩ 6	Bats : is Area :  Sprea N E 8 7	Unknown No ad (m)
Tree ID: T0138         Species: Common Ash         Fraxinus excelsior         Image: Stems in the stem in the ste	Tag : TPO : Cat ERC C.1 20 to 40 yrs ms. py and upper stem.	0138 → RP A (m <sup>2</sup> ) R (m) 71.3 4.76	Assessor : Ryan Do Inspected : 14 July : Next Insp : Not Req 1st Branch: 3 NE Site Status Pre Construction	odds 2015 uired <b>Priority</b> N/A	⊢ Clear N E 2 5	rance (m) E S 4	Con	Bats : s Area : Sprea N E 8 7	Unknown No ad (m) —   S W 6 7
Tree ID: T0138         Species: Common Ash         Fraxinus excelsior         Image: Stems in the stem in the ste	Tag : TPO : Cat ERC C.1 20 to 40 yrs ms.	0138	Assessor : Ryan Do Inspected : 14 July : Next Insp : Not Reg 1st Branch: 3 NE Site Status Pre Construction	odds 2015 uired Priority N/A	⊢ Clear N E 2 5	rance (m) E S 4	Con	Bats : s Area : N E 8 7	Unknown No ad (m)

Tree ID: T0139	Tag :	0139	Assessor : Ryan	Dodds				Bats	: Un	known
Species : Wild Cherry	TPO:		Inspected: 14 Jul	ly 2015			Co	ns Area	:	No
Prunus avium			Next Insp: Not R	equired						
			1st Branch: 2.5 N							
Stems Health						earance	e (m) —	⊢–s	pread (m	n)——
H (m) No Ø (mm) Maturity Crown Stem Basal Phy Con	Cat ERC	A (m²) R (	m) Site Status	Priority	N	E	S W	N	E S	s w
13.6 1 700 Over Mature Poor Fair Fair Decline	U n/a	221.7 8.4	4 Pre Construction	3 Months	4	4	4 3	6	6 5	5 5
Tree Comment:       Large, poor quality specimen in early stages of dedine. Relatively healthy stem. Co-dominant stems form at 2.5m HGL with tight unions Approx 10% foliage. Major deadwood and bark necrosis. Evidence of previous pruning. Large dead branch overhangs adjacent path.         Survey Comment:       Root containment by footpath to east.         Work Category       Action         Fell and replacement plant       In agreement with the LPA	and included bark	at POU.	Tree T Viewed southe	0139 – d from ast						
Remove tree in the interests of Health & Safet	ty.		southo		and the seasons	-	and the	-		PROFESSION AND AND AND AND AND AND AND AND AND AN
Remove tree in the interests of Health & Safe Tree ID: T0140 Species : Plack Cherry	ty. Tag:	0140	Assessor : Ryan	Dodds			0-	Bats	: Un	iknown
Remove tree in the interests of Health & Safe, Tree ID: T0140 Species: Black Cherry Priories serviting	ty. Tag : TPO :	0140	Assessor : Ryan I Inspected : 14 Jul	Dodds y 2015			Co	Bats ns Area	: Unl	iknown No
Remove tree in the interests of Health & Safe Tree ID: T0140 Species: Black Cherry Prunus serotina	ty. Tag : TPO :	0140	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R	Dodds y 2015 equired			Co	Bats ns Area	: Unl	iknown No
Remove tree in the interests of Health & Safe Tree ID : T0140 Species : Black Cherry Prunus serotina	ty. Tag : TPO :	0140	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R 1st Branch: 2 E	Dodds y 2015 equired		Parano	Co	Bats ns Area	: Unl :	iknown No
Remove tree in the interests of Health & Safe         Tree ID : T0140         Species : Black Cherry         Prunus serotina         Health —	ty. Tag : TPO :	0140	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 2 E	Dodds y 2015 equired	⊢ Cle	earance	Co e (m) ⊣ s w	Bats ns Area ⊢S	: Unl : pread (m	iknown No n)
Remove tree in the interests of Health & Safe         Tree ID:       T0140         Species:       Black Cherry         Prunus serotina       Health         H (m) No       Ø (mm)         Mature       Good         Poor       Fair	ty. Tag: TPO: Cat ERC	0140 ⊢	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not R Ist Branch: 2 E	Dodds y 2015 equired Priority 3 Months	⊢ Cle N 2	earance E 2	Co e (m) → S W 2 35	Bats ns Area  S N 4.5	: Unl : pread (m E \$ 5 4	nknown No n)  S W
Remove tree in the interests of Health & Safe         Tree ID:       T0140         Species:       Black Cherry         Prunus serotina       Health         H (m) No       Ø (mm) Maturity Crown Stem Basal Phy Con         10.3       1         10.3       1         296       Mature         Good       Poor         Tree Comment:       Reasonably healthy in appearance.         Large wound on east side of stem at 0.5m HGL, with events         Branching system forms at 2m HGL with tight unions.         Evidence of previous pruning.         Snags within canopy.         Canopy overhangs adjacent path.	ty. Tag : TPO : Cat ERC C.1 <10 yrs vidence of decay.	0140	Assessor : Ryan I Inspected : 14 Jul Next Insp : Not Re Ist Branch: 2 E n) Site Status 5 Pre Construction	Dodds y 2015 equired Priority 3 Months	⊢ Cle N 2 Stem da on Tree T0140 – Viewed east	earance E 2 mage from	Co e (m)  s w 2 3.5	Bats ns Area ⊨S N 4.5	: Unl : pread (m E \$ 5 4	iknown No n)



Tree ID :	T0143						Та	ag :	0143		Assessor	r: Ryan D	Dodds					Bat	s :	No	
Species :	Swedish W	hitebeam					TP	0:			Inspected	1: 27 July	/ 2015				Co	ns Area	a:	No	
	Sorbus inte	ermedia									Next Insp	: NotRe	equired								
Estimated I	Measureme	nts									1st Brand	h: 0.7 SE									
H	- Stems-			— He	alth —		ł		F	Rb ———				$\vdash \mathbf{c}$	learar	ice (m	) —	<b>—</b> 5	pread	(m)	-
H(m) No	o EqØ(mr	n) Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Sta	atus	Priority	N	E	S	W	N	E	S	W
64	236	Mature	Good	Fair	Poor	Fair	C.1	10 to 20 yrs	25.2	2.83	Pre Constr	ruction	6 Months	2	2	2	2	3.5	3.5	3.5 3	3.5
Tree Com	ment: Re Mu Ev Mi	latively health ilti stemmed f idence of prev nor snags and Dense, under	iy in appea rom base v vious pruni I dea dwoor storey veg	arance. with tight ing on ma d within ( getation s	t unions. ain stem canopy. surround	ing base o	f tree.														
Work Categ Ren	<b>jory Actio</b> move Dea	<b>n</b> Iwood and sn	ags											Tre Vie nor	e T01 ewed f th	43 – rom	6				
Tree ID :	T0144						Та	ag :	0144		Assesso	r: Ryan [	Dodds					Bat	s:	Unknow	'n
Species :	Mhitohoon																				
	whitebean	1					TP	<b>10</b> :			Inspected	<b>d:</b> 27 Jul	y 2015				Co	ns Are	a :	No	
	Sorbus aria	1					TP	0:			Inspected Next Insp	d: 27 Jul p: Not Re	y 2015 equired				Co	ns Are	a :	No	
Estimated I	<i>Sorbus aria</i> Measureme	nts					TP	ю:			Inspected Next Insp 1st Branc	d: 27 Juh p: Not Re h: 1e	y 2015 equired				Co	ns Are	a:	No	
Estimated I	Sorbus aria Measureme Stems	nts	<b> </b>	He	alth —		TP 1	80:	⊢ F	RP	Inspected Next Insp 1st Branc	d: 27 Jun p: Not Re h: 1e	y 2015 equired	⊢ (	Cleara	nce (m	Co 1) —	ns Are	a : Spread	No (m)	
Estimated I H (m) No	Sorbus aria Measureme Stems Ø (mn	nts   1) Maturity	Crown	He Stem	alth — Basal	Phy Con	TP Cat	XO : ERC	⊢ F A (m²)	R (m)	Inspected Next Insp 1st Branc Site St	d: 27 Juh p: Not Re h: 1e	2015 equired Priority	⊢ ¢ N	Clearai E	nce (m S	Co i)  W	ns Are	a : Spread E	No (m) S	w
Estimated I H (m) No 6 1	Sorbus aria Measurema Stems Ø (mn 400	nts 	Crown Fair	—— He <b>Stem</b> Fair	alth — Basal Fair	<b>Phy Con</b> Fair	<b>Cat</b> C.1.2	<b>ERC</b> 10 to 20 yrs	⊢−−− F <b>A (m²)</b> 5 72.4	RP ————————————————————————————————————	Inspected Next Insp 1st Branc Site Sta Pre Const	d: 27 July p: Not Re h: 1e atus ruction	y 2015 equired Priority N/A	⊢ ( N 1.5	Clearai E 1.5	nce (m S 1.5	Co )	ns Are	a : Spread E 3	No (m) S 4.5	→ ₩ 3
Estimated I H (m) No 6 1 Tree Com Survey Co Work Categ No ad	Sorbus aria Measureme - Stems - - Ø (mn 400 ment: Re Tr Tr De Su omment:	nts Maturity Mature asonable heal asonable heal adwood and s rrounded by o Minor root co Dense, under n ction	Crown Fair th and cor of group. ere branch snags with Jense unde intainment storey veg	He Stem Fair ndition. ning syste in canopy erstorey v by hard : petation s	alth — Basal Fair Fair wegetatio surfacing urroundi	Phy Con Fair 5. on. g to northe ing base of	Cat C.1.2	<b>ERC</b> 10 to 20 yrs	├─── F <b>A (m?)</b> 5 72.4	₹₽ <b>R (m)</b> 4.8	Inspected Next Insp 1st Brand Site Sta Pre Const	d: 27 July p: Not Re h: 1e atus ruction Combin of trees T0145	Priority N/A N/A ned canopies T0144, & T0146 –	⊢ ( N 1.5	Clearai E 1.5	nce (m s 1.5		ns Are	a : Spread E 3	No (m) — S 4.5	<b>₩</b> 3

Γ

Tree ID : T0145 Species : Whitebeam Sorbus aria		Tag : TPO :	0145	Assessor: Ryan D Inspected: 27 July Next Insp: Not Re	odds v 2015 equired			Cons	Bats : s Area :	Unknown No
Stems-	Health		⊢ RP	1st Branch:		⊢ Cle	arance (m	) —	— Spre	ead (m)——
H (m) No Ø (mm) Maturit	y Crown Stem Basal Phy C	on Cat ERC	A (m²) R (m	) Site Status	Priority	N	E S	W	N I	E S W
6 1 350 Mature	Fair Fair Fair Fai	B.1.2 10 to 20 y	rs 55.4 4.19	Pre Construction	6 Months	1.5	1.5 1.5	1.5	4 3	3 3
Tree Comment: Reasonable he Tree forms pa Surrounded by Deadwood and Survey Comment: Dense, und Work Category Action Remove Deadwood and	ealth and condition. rt of group. / dense understorey vegetation. d snags within canopy. derstorey vegetation surrounding bas snags	e of tree.		Combine of trees T T0145 &	d canopies 0144, T0146 –					
				Viewed f	rom east	Ale				and and a
Tree ID: T0146		Tag :		Assessor : Ryan D	Dodds				Bats :	Unknown
Tree ID: T0146 Species: Whitebeam		Tag : TPO :		Assessor: Ryan D Inspected: 27 July	)odds / 2015			Con	Bats : s Area :	Unknown No
Tree ID : T0146 Species : Whitebeam Sorbus aria		Tag : TPO :		Assessor: Ryan D Inspected: 27 July Next Insp: Not Re	Oodds / 2015 aquired			Con	Bats : s Area :	Unknown No
Tree ID : T0146 Species : Whitebeam Sorbus aria	licelth	Tag : TPO :		Assessor : Ryan D Inspected : 27 July Next Insp : Not Re Ist Branch:	Oodds / 2015 aquired		earance (m	Con	Bats : s Area : └── Spr	Unknown No
Tree ID : T0146 Species : Whitebeam Sorbus aria  Stems H (m) No Ø (mm) Maturity	⊢ Health −	Tag: TPO:	⊢──_ RP ── A (m²) R (m	Assessor : Ryan D Inspected : 27 July Next Insp : Not Re 1st Branch:	Dodds / 2015 equired <b>Priority</b>	⊢ Cle N	earance (m E S	Con 1)	Bats : s Area :   Spr N	Unknown No ead (m) —   E S W
Tree ID : T0146 Species : Whitebeam Sorbus aria 	├────────────────────────────────────	Tag: TPO: on Cat ERC B.1.2 10 to 20 y	⊢─── RP ─── A (m²) R (m rrs 72.4 4.8	Assessor : Ryan D Inspected : 27 July Next Insp : Not Re Ist Branch: J Site Status Pre Construction	Dodds 7 2015 equired <b>Priority</b> 6 Months	⊢ Cle N 1.5	earance (m E S 1.5 1.5	Con )  W 1.5	Bats : s Area : Spr N 1 4 3	Unknown No ead (m) — ( E S W 3 3 3
Tree ID : T0146 Species : Whitebeam Sorbus aria Stems H (m) No Ø (mm) Maturity 6 1 400 Mature Tree Comment : Reasonable he Tree forms par Surrounded by Deadwood and Survey Comment : Dense, und	Health — Y Crown Stem Basal Phy C Fair Fair Fair Fair Fair alth and condition. t of group. dense understorey vegetation. I snags within canopy. erstorey vegetation surrounding base	Tag : TPO : on Cat ERC B.1.2 10 to 20 y of tree.	├─── RP ── A (m²) R (m rs 72.4 4.8	Assessor : Ryan D Inspected : 27 July Next Insp : Not Re Ist Branch: J Site Status Pre Construction	Dodds 7 2015 equired <b>Priority</b> 6 Months	⊢ Cle N 1.5	earance (m E S 1.5 1.5	Con 0)  W 1.5	Bats : s Area : 	Unknown No ead (m) —   E S W 3 3 3

Tree ID : T0148 Species : Wild Cherry Prunus a vium Estimated Measurements	Tag : TPO :	0148 Assessor: Ryan Dodds Inspected: 27 July 2015 Next Insp: Not Required Ict Branch:	Bats: Unknown Cons Area: No
Stems Health			— Clearance (m) —
H (m) No Ø (mm) Maturity Crown Stem Ba	sal Phy Con Cat ERC	A (m²) R (m) Site Status Priority	NESWNESW
6 1 300 Mature Poor Poor Po	oor Decline C.1 <10 yrs	40.7 3.59 Pre Construction 6 Months	1.5 1.5 1.5 1.5 3 1 3 3
Tree Comment:       Poor quality specimen in serious decline         Evidence of topping and severe pruning         Relatively sparse foliage.         Survey Comment:       Root containment by hard surfacing to         Dense, understorey vegetation surror         Work Category       Action         Fell and replacement plant       In agreement with the LPA	works. iowards east. unding base of tree.	Tree T014 – Viewed from west	8
Tree ID: T0149	Tag :	0149 Assessor : Rvan Dodds	Bats : No
Species : Swedish Whitebeam	TPO :	Inspected: 27 July 2015	Cons Area : No
Sorbus intermedia		Next Insp: Not Required	
		1st Branch: 0.5 SE	
H (m) No Fa Ø (mm) Maturity Crown Stem Ba	cal Day Con Cat ERC	A (m <sup>2</sup> ) P (m) Site Status Priority	⊢ Clearance (m) ⊣ ⊢ Spread (m) –
6 6 490 Mature Good Fair F	air Fair C.1 10 to 20 yrs	108.6 5.87 Pre Construction 6 Months	1.7 1.7 1.7 1.7 4 3.5 3.5 4
Tree Comment: Relatively healthy in appearance. Multi stemmed from base with tight uni Evidence of previous pruning on main s Minor snags and deadwood within cano	ons. tem. py. unding base of tree.		

# Tree Root Protection Areas (RPA's)

- **8.1** All trees that are being retained on site should be protected by barriers, in accordance with Appendix 1, before construction or demolition work commences.
- **8.2** Where construction of the proposed development requires access 'over' the RPA of trees, appropriate 'Approved' protection measures must be taken, to prevent damage to their rooting systems.
- **8.3** 'Root Protection Area' as indicated on Plan Dwg. No. **0007697/P1**, by a red coloured, solid line circle.
- 8.4 Table No.1 shows the trees' 'Root Protection Areas', in accordance with, BS 5837:2012.

		Table 1		
Tree No.	Species	DBH	RPA (sq m)	<b>R</b> (m)
		(mm)		. ,
T0127	Cherry	445	89.6	5.34
T0128	Cherry	340	52.3	4.08
T0129	Rowan	273	33.7	3.27
T0130	Rowan	213	20.5	2.55
T0131	Rowan	203	18.6	2.43
T0132	Poplar	945	404	11.34
T0133	Norway Maple	197	17.6	2.36
T0134	Ash	426	82.1	5.11
T0135	Ash	318	45.8	3.81
T0136	Ash	509	117.2	6.1
T0137	Norway Maple	240	26.1	2.88
T0138	Ash	397	71.3	4.76
T0139	Cherry	700	221.7	8.4
T0140	Cherry	296	39.6	3.55
T0141	Poplar	986	439.9	11.83
T0142	S. Whitebeam	285	36.6	3.41
T0143	S. Whitebeam	236	25.2	2.83
T0144	Whitebeam	400	72.4	4.8
T0145	Whitebeam	350	55.4	4.19
T0146	Whitebeam	400	72.4	4.8
T0148	Cherry	300	40.7	3.59
T0149	S. Whitebeam	490	108.6	5.87

# 9.0 Analysis Introduction

- **9.1** The 'Tree Schedule' (paragraph 8.0) outlines detailed information on the physical attributes of individual specimens, together with recommended actions.
- **9.2** The 'Tree Analysis' examines the environment in which the trees are growing, together with other factors, which will impact upon, or influence the trees' current and future health and condition.

# 10.0 Tree Analysis - General

- **10.1** Trees which are growing within and immediately surrounding a property are considered as having 'visual amenity and landscape value'. The 'amenity value' is dependent upon the current Health and Condition of the trees, whether they are viewed from within, or outside of the property, or from the surrounding environment.
- **10.2** Good specimen trees which are growing adjacent to a Public Highway, become part of the 'Street Scene' and are therefore, enjoyed by the Public at Large. These trees may be classified as being of 'high' visual amenity and landscape value.
- **10.3** Where trees are growing in a more 'sensitive' environment e.g. 'Conservation Areas', retention of tree cover will be considered by the Local Planning Authority, as being of 'high' importance. The visual amenity and landscape value of trees will therefore, be an important consideration.
- **10.4** Where specimens are growing within 'groups', their overall 'combined canopy effect', particularly when viewed from a greater distance, e.g. within open countryside, may show the group as being of 'high' visual amenity and landscape value.
  - **10.4.1** The highly competitive environment in which 'groups' of trees grow, frequently results in their rooting and branching systems being contained and suppressed. This may not detract from the overall 'amenity' appearance of the group, but individual specimens may be unhealthy and of poor shape, form and character for the species. The visual amenity and landscape value of individual, poor quality trees will therefore, be reduced.
  - **10.4.2** In order to maintain continuity of the 'visual amenity value' of a group, it may be desirable or necessary, to remove and replace the poorer quality specimens.
- **10.5** Trees, shrubs and hedges growing adjacent to property boundaries may be of great benefit, in that they will provide a visual 'softening' effect between properties. These trees, although may not be readily viewed by the public at large, may be classified as being of 'local' visual amenity and landscape value.
- **10.6** The Tree Schedule, pages 6-16, outlines the attributes of individual trees. Where trees are found to have a relative short remaining life expectancy, consideration may be given to their 'phased' or 'selective' removal and replacement planting. This will enable 'continuity' of the visual amenity and landscape value, by retaining the remaining trees, while replacement trees establish and grow to maturity.



# 11.0 Tree Analysis - Specific

- **11.1** It is seen from Tree Constraints Plan, Ref. **0007697/P1** that the majority of trees are growing adjacent to the eastern elevation of the main building, and readily visible from the Public Highway. These trees, which are viewed by the Public at large, create a softening effect between the Public Highway and the adjacent building. The trees therefore, may be classed as being of 'high' visual amenity and landscape value.
  - 11.1.1 Close inspection shows that, the trees growing adjacent to the eastern elevation of the main building have been subject to past management, and appear to be in reasonable Health & Condition. However, inspection shows that several trees (T0135, T0136, T0139 & T0140) are of poorer quality. The visual amenity and landscape value, and life expectancy of these trees therefore, may be reduced.
  - **11.1.2** As trees **T0139** & **T0140** are growing adjacent to the Public Highway Footpath, there is risk of injury to people or damage to property in the event of tree failure. Consideration therefore, should be given to removal of the trees, and replacement planting be carried out in agreement with the Local Planning Authority (LPA).
- 11.2 Trees T0127 T0141, are seen to be growing within a contained environment, formed by building foundations, road kerbs and hard surfacing. These structures form physical barriers, which create a restrictive growth environment. Within this environment, the trees will be competing for canopy and root growth space, ground moisture and nutrients.
  - 11.2.1 The larger, more dominant species e.g. T0132 & T0141 (Poplars), which are 'high' moisture demanders, will be growing at the expense of the smaller, less dominant specimens. All trees however, are competing with each other within this 'hostile' growing environment. The growth and development of the trees therefore, will exhibit less vigour and health than if growing in an optimum growing environment. The life expectancy of the trees will be reduced, and potentially, become more susceptible to pathogenic invasions.
- **11.3** The trees growing within the 'unmaintained scrub' area, within the northwest corner of the site, are not readily viewed by the Public at large, and therefore, may be classed as being of 'local' visual amenity and landscape value. They do however provide a visual softening effect between adjacent properties.
  - **11.3.1** Close inspection provides evidence to show that this area appears not to have been subject to past management or maintenance. The area is covered with self-sown, poor quality trees and understory scrub, and seen to be in a semi-derelict state.
  - **11.3.2** Consideration may be given to removal of these poor quality trees, and replacement planting be undertaken as part of an Approved Landscaping Scheme.



# 9.0 Conclusion

**9.1** It is proposed, that the former 'Be Modern' industrial premises, on Western Approach, South Shields, is to be subject to redevelopment. There are trees growing within the property, and an Arboricultural Tree Report and Constraints Plan have been requested.

### **10.0 Environmental Impact of Recommendations**

**10.1** The environmental impact of recommended works will result in the following:

- **10.1.1** The retained trees will:-
  - Continue to be of visual amenity and landscape value within the area.
  - Ensure long term continuity of tree cover within the area.
  - Act as 'Carbon Sinks' by removing Carbon Dioxide from the air.
  - Continue to provide and improve wildlife habitats.
- 10.1.2 Trees considered for removal will:-
  - Be replaced in agreement with the LPA, or as part of an Approved Landscaping Scheme.
  - Eliminate risk of injury to people or damage to property, respectively.
  - Increase growth space, ground moisture and nutrients for surrounding trees.



# **11.0 Arboricultural Method Statement**

- **11.1** Trees and RPA's should be protected by 'Approved' barriers and/or ground protection. Tree protection measures should be implemented prior to materials or machinery being brought onto site, and before stripping of soil, excavations, demolition, or development commences.
- **11.2** Where operations or access are proposed within the trees' RPA (or crown spread where this is greater), precautionary measures must be adopted, in order to demonstrate that the operations can be undertaken with minimal risk of adverse impact upon the trees.
- **11.3** Where use of permanent hard surfacing is unavoidable, and to be constructed within the RPA, 'Site Specific' and specialist Arboricultural and Construction design advice should be sought. This will help determine its achievability without significant, adverse impact upon retained trees.

# Method Statements (Site Specific)

Site specific Method Statements, may be required (outlined below), how operations may be undertaken to prevent damage to trees during Development or Demolition Works.

- Erect Protective Fencing
- Temporary ground protection (vehicular access, plant & machinery)
- Permanent ground protection within RPA's
- Excavations adjacent to RPA's
- 'No Dig' methods of construction
- Storage of excavated materials
- Storage of harmful materials away from trees (diesel, petrol, cement, etc.)

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For and on behalf of Batson Landscape & Tree Care Ltd



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#### Appendix I

#### Information Regarding Types of Protective Fencing and Barrier Types (BS: 5837: 2012 Part 6.2).

All trees to be retained on site should be protected by barriers or ground protection. The barriers should be erected before any materials or machinery are brought on site and should not be removed or altered without prior consent by a qualified Arborist.

Barriers should be fit for the purpose of excluding construction activity and appropriate to the level and proximity of work taken place around the trees. Barriers should remain rigid and complete.

In most cases, barriers should consist of scaffolding framework in accordance with Figure 2, below, which comprises of a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at maximum intervals of 3 metres.

Should the site circumstances and the associated risk of damaging incursion into the RPA do not necessitate the default level of protection, it may be possible, for the project Arboriculturist to design an alternative specification, and where relevant agreed with the Local Planning Authority. For example 2m tall welded mesh panels on rubber or concrete feet, secured with two couplers and supported with stabiliser struts. See Figure 3.



Figure 2 Default specification for protective barrier



Figure 3 Examples of above-ground stabilizing systems





#### Appendix II

#### NJUG (National Joint Utilities Group)

#### 'Guidelines for the Planning, Installation, and Maintenance of Utility Services in Proximity to Trees'.

NJUG guidelines are applicable to all underground and overhead services and to trees in various locations. The guidelines should be considered when; a) services are to be maintained or managed and trees are to be managed, b) when new services are to be constructed adjacent to existing trees, and c) where new trees are to be planted adjacent to existing services.

Generally, the majority of the trees rooting system is in the first 600mm of the soil, and tends to extend in a radial direction with distances in excess of the trees height. Excavations within trees' root protection areas are likely to damage roots. Therefore, whenever trees are present, it is important to minimise damage to the trees' rooting system. Excavation of open trenches by machine is totally unacceptable within root protection areas.

As the extent of the trees rooting system is often unpredictable, careful control and supervision of any excavation, particularly if it involves digging through the surface 600mm where the majority of roots develop.

Where possible, services should be diverted outside of root protection areas. However, where this is not possible, there are various techniques, which may be used to minimise damage to tree roots. The method for lying depends on the following:

- The scope of the works (i.e. are the works a one-off repair, or do they form part of an extensive operation?).
- Degree of urgency (for restoration of supplies)
- Knowledge of location of other services
- Soil conditions
- Amenity value of tree
- Cost

#### Acceptable techniques for the laying of services in order of preference are:

**Trenchless** - Wherever possible trenchless techniques should be used. Pit excavations for starting and receiving the machinery should be located outside the root protection area.

In order to avoid damage, the recommended depth of the run should be below 600mm. External lubrication of the mole with materials other than water should be avoided, unless precautions are taken to ensure no contamination of soil within 600mm of the surface within the root protection area.

**Broken trench** – Combines hand dug trench sections with trenchlesss techniques. If excavations are unavoidable it should be limited to practical access and installation around / below the roots. The trench must be excavated by hand. Open sections should only be long enough to allow access for linking to the next section. Lengths of sections will be determined by local conditions such as soil texture, cohesiveness as well as the practical need for access. In all cases open sections should be kept as short as possible.

**Continuous trench** – must be undertaken by hand as to retain as many roots as possible. Needs to be undertaken with great care, and therefore is likely to require close supervision, and undertaken by fully competent operatives.

After careful removal of the hard surface material, digging should be undertaken with hand tools. Clumps of smaller roots, including fibrous roots and roots greater than 25mm diameter, should be retained. Roots with a diameter greater than 25mm should not be cut without prior advice from a qualified arborist. If severance is unavoidable, roots must be cut back using a sharp tool, leaving the smallest wound.



#### Appendix III

#### Terminology

It should be noted that trees are dynamic organisms and as such are subject to change. The details recorded in this report only apply to those visibly apparent on the day of inspection.

No diagnostic tools were used in the assessment; the trees were only assessed visually from ground level. A DBH tape was used to measure the diameter at breast height of the trees. The height and crown spread was estimated.

It should be noted that the trees may be the subject of a Tree Preservation Order or may lie within a Conservation Area. Therefore, the Local Planning Authority must be contacted before any works are carried out upon the trees.

1.0 Tree number:

Each of the trees surveyed was allocated a unique T number, these T numbers are specific to this report only.

1.1 Tree species:

Full botanical name (genus and species) and common name has been given.

1.2 Age class:

Tree age was estimated using the surveyor's professional experience and placed in one of the following categories:

- a) Over mature crown starting to break up and decrease in size.
- b) Mature more or less at full height but still increasing in girth rapidly. This category may be extended into the late maturity class, whereby the tree is more or less at full height and large girth but increasing only slowly.
- c) Semi-mature between 1/3 and 2/3 of the expected height.
- d) Young established tree up to 1/3 expected ultimate height.
- 1.3 Height:

Individual tree height was estimated.

1.4 Crown spread:

The crown spread of the tree was measured in metres from the centre of the tree in north, south, east and westerly directions.

#### 1.5 D.B.H:

The diameter at breast height was measured at the standard 1.5 meters above soil level.

1.6 Condition:

A general arboricultural account of the tree's health and form were noted based on site observations. The trees were then placed in one of the following categories:

- a) Good full healthy canopy but possibly including some suppressed branches or minor physical damage.
- b) Reasonable slightly reduced leaf cover, minor deadwood or isolated areas of more extensive deadwood.
- c) Poor overall sparse leafing or extensive dead wood.
- d) In decline large areas of the crown dead.

Note – The assessment of overall condition also considers other factors including the appearance of the trunk and branches – splits and/ or breaks; potentially weak structural features such as forks, crossing branches, cavities, decay and physical damage to stem or branches.



#### Appendix IV

#### British Standard Tree Categorisation 2012

Category A Light Green: (RGB code 000-255-000)

Trees of high quality with an estimated remaining life expectancy of at least 40 years

- 1. Trees that are good example of their species, especially if rare or unusual; or those that are essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and / or principle trees within an avenue).
- 2. Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape
- Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or woodpasture).

#### Category B Mid Blue: (RGB code 000-000-255)

Those of moderate quality with an estimated remaining life expectancy of at least 20 years

- 1. Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking special quality necessary to merit the category A designation
- 2. Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little contribution to the wider locality.
- 3. Trees with material conservation or other cultural value.

#### Category C Grey: (RGB code 091-091-091)

Trees of low quality with an estimated life expectancy of at least 10 years, or young trees with a stem diameter of below 150mm

- 1. Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.
- 2. Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offer low or only temporary /transient landscape benefits
- 3. Trees with no material conservation or other cultural value.

#### Category U Dark Red: Trees for removal (RGB code 127-000-000)

Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.

- 1. 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 removal of other category U trees. (e.g where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)
- 2. Trees that are dead or are showing signs of significant immediate and irreversible overall decline.
- 3. 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 value.



#### Appendix V

#### Tree detail:

Where applicable, the surveyor may record specific problems/defects associated with a particular tree. This may include consideration of the root plate and the trunk/soil interface, cracking, mounding, presence of fungi as well as an examination of previous management practices such as pollarding, crown reduction/thinning, etc. In the majority of instances, the intensity/severity of the problem/defect will also be recorded individually.

Estimated remaining contribution in years:

a)	< 10
b)	10+
c)	20 +

d) 20+

1.10 Recommendations:

All recommendations are based on the author's previous experience and knowledge.

All recommendations are valid for a period of one year, from the date of inspection.

The following terms may be used:

- (a) Crown clean the removal of dead, dying, diseased and crossing branches.
- (b) Crown raise/lift the removal of the lower branches to allow the unhindered passage of pedestrians/vehicles.
- (c) Crown thin the removal of branches within the crown to permit the free flow of air, allow greater light penetration or to reduce crown/ branch weight.
- (d) Removal the controlled dismantling or felling of a tree, usually to just above ground level.

The removal of stumps (usually by stump grinder) to below ground level removes trip hazards and can significantly reduce potential sources of infection.



#### Appendix VI

Glossary of Terms Str	outs <i>et al</i> (2000) & Lonsdale (1999)
Arboriculture	formally, the culture of trees.
Assessment	in relation to tree hazards, the process of estimating the risk which a tree or a group of trees pose to persons or property.
Aerial	above ground.
Bark	a term usually applied to all the tissues of a woody plant lying outside the vascular cambium, thus including the phloem, cortex and periderm.
Blight	a loose term describing the extensive and rapid death and collapse of soft tissue.
Bole (trunk)	the main stem of a tree below its first major branch.
Bracket fungus	a fungus whose fruiting bodies resemble brackets shelves or hoofs.
Branch	a limb extending from the main stem or parent branch of a tree.
Branch bark ridge	the raised arch of bark tissue that forms within the acute angle between a branch and its parent stem.
Branch collar	a swelling at the base of a branch whose diameter growth has been disproportionally slow compared to that of the parent stem; a term also applied to the pattern in which the cells of the parent stem grows around the branch base, even if no swelling is thereby formed.
Brown-rot	a type of wood decaying in which cellulose is degraded, while lignin is only modified.
Butt	the basal end of the trunk.
Callus	a term with more than one botanical meaning, especially an undifferentiated mass of cells, for example forming on the upper sides of the junctions
Canker	a clearly defined patch of dead and sunken or malformed bark.
Canker-rot	a disease in which the causal fungus gives rise to both bark canker and underlying wood
Chlorosis	abnormal yellow or yellow-green coloration of normally green foliage.
Co-dominant	"A fork comprising co-dominant leaders is somewhat weaker than a junction between a main stem and a subsidiary branch. In the region where the branch merges with the parent stem, its wood is partially enveloped by the latter due to its smaller annual growth in diameter". (Lonsdale. 1999).
Defect	in relation to tree hazards, any feature of a tree which detracts from the uniform distribution of mechanical stress, or which makes the tree mechanically unsuited to its environment.
Dieback	often used to mean 'death'. Here used to mean progressive death of a tree or branch from its extremities towards the roots.
Delamination	separation of one layer from another.
Flush-cut	a pruning cut close to the parent stem which removes part of the branch bark ridge or collar.
Fruit body	a general term for any kind of fungal, spore-bearing structure.
Gall	abnormal plant growth.
Hazard beam	in a tree, an upwardly curved part in which strong internal stresses may occur without the compensatory formation of extra wood.
HGL	Height above ground level

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Host (tree)	the tree on or which the parasite lives.
Included bark	(ingrown bark) bark of adjacent part of the tree (usually in forks acutely angled branches or basal flutes) which is in face-to-face contact so that there is weakness due to the lack of woody union.
Lignin	the hard, cement like constituent of wood cells.
Lion-tailing	a term applied to a branch of a tree that wholly or largely lacks side-branches, except near its tip, and may thus be liable to snap due to end loading.
Natural pruning	the shedding of a twig or branch that has died back naturally and has become decayed at or near its base (often due to the activation of wood-decaying endophytes).
Necrosis	premature death of specific areas of living tissue, owing to some adverse factor. Often characterised by a change in colour to brown or black.
Occlusion	the overgrowth of a wound with (callus) tissue produced subsequently (verb occlude).
POU	Point of Union - point in which branches or co-dominant stems are formed.
Remedial action	in tree hazard management, action to remove or mitigate the risk of injury to persons or damage to property.
Stag-headed	describes the silhouette of a large tree whose crown has died back so that the ends of the dead branches protrude like spikes or antlers from the reduced live foliated crown.
Sucker	regenerated growth shoots / water shoots usually from the base and stem of trees. Many species cause galls.

