

St James Junior School



Tree Survey
3rd December 2020



Arboricultural Report for Cumbria County Council by Emma Chapman

Location: St James' C of E Junior School
Wellington Row
Whitehaven
Cumbria
CA28 7HG

Date: 3rd December 2020

CONSULTANTS REPORT

Background:

A tree safety survey was requested for this site by Cumbria County Council's Facilities Management. This report documents the results of that survey and makes recommendations where appropriate.

The report is valid only for typical weather conditions. Healthy trees or parts of healthy trees may fail in abnormal weather conditions and as such the consequences of such are unforeseeable. Cumbria County Council cannot be held liable for any such failures.

Capital Programmes & Property Unit have also been sent a copy of your Survey and are arranging for all *Priority 1* and *Priority 2* works to be carried out for those sites which fall under the **Corporate Landlord Budget**.

However, if you hold your own budget you can either organise the works yourself or Capital Programmes & Property will be happy to do this on your behalf and then re-charge the cost to your budget.

Tree Stock Overview:

There are only a few trees located on the site, mainly in the rear of the school.

The most prominent tree is a Cherry located at the front of the school; The tree stock is juvenile to mature in age and of overall good condition.

Tree Preservation Order or Conservation area:

There are no Tree Preservation Orders on site, however this site falls within a Whitehaven Conservation Area (see attached map).



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Recommended works:

- **Priority 1**
 - No works required.
- **Priority 2**
 - Maintain carpark clearance from trees in **Area G1**.
 - Formatively prune trees in **Area G1** to crown raise.
- **Priority 3**
 - Remove Ivy from **Field Maple** (4) and **Ash** (7).
 - Remove epicormic growth from **Hawthorn/ Cherry** (3).
 - Formatively prune **Field Maple** (4).
 - Crown raise **Hawthorn/ Cherry** (3) and **Beech** (8).
 - Crown clean **Hawthorn/ Cherry** (3), **Field Maple** (4), **Whitebeam** (5), **Beeches** (6 & 8) and **Ash** (7).
- **Monitor**
 - Minor root damage **Cherry** (1), **Hawthorn/ Cherry** (3), **Whitebeam** (5), **Beeches** (6 & 8) and **Ash** (7).
 - Minor basal damage on **Whitebeam** (5).
 - Minor trunk damage **Cherry** (1), **Whitebeam** (5) and **Beeches** (6 & 8).
 - Minor limb damage **Cherry** (1).
 - **Ash** (7) has signs of Ash Dieback.

QTRA Assessment

The QTRA 'risk of significant harm' for this site is **1/50,000**. This is based on the tree shown on the plan at the rear of the document.

No trees on the site pose a risk of significant harm of greater than 1/10,000. An explanation of QTRA is provided at the rear of this document.



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General Recommendations for all Sites

1. Ensure a height clearance over public highways of 5.1 metres, and over public footpaths, internal footways and play areas/playgrounds of 2.5 metres.
2. Prevent access to areas near trees during stormy weather and walk over the site following stormy weather to check for broken and hung up branches and other damage.
3. Make sure all work is carried out to BS 3998:2010 *Recommendations for tree work*. Contractors must be fully qualified and hold public liability and employers insurance for the work undertaken.
4. Should any fungal fruiting bodies (mushrooms, toadstools and brackets) appear on or around the rooting area of any trees on the site, please contact Cumbria County Council (Facilities Management) for advice.



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SITE: St James' C of E Junior School, Whitehaven								SURVEYOR: Emma Chapman		
CLIENT: Cumbria County Council								ASSESSMENT DATE: 03/12/2020		
BRIEF: Conduct QTRA Tree Survey and Give Work Recommendations								VIEWING CONDITIONS: Showers		
								JOB REFERENCE: FX0000878		
	SPECIES	TREE TAG NO.	AGE RANGE	HEIGHT (M)	DBH (cm)	VIGOUR	REVIEW YEARS	COMMENTS	MANAGEMENT	WORKS PRIORITY
G1	Rowans x 3, Alder x 1	-	Juvenile	0-5	MS	High	2	Located in shrub bed. Located next to car park. Low branches/ trunk growth.	Comment only. Maintain car park clearance. Formatively prune to crown raise.	N/A P2 P2
1	Cherry	-	Mature	0-5	MS	Moderate	2	Pollarded in past. Exposed roots. Minor root damage. Minor trunk damage. Minor limb damage. Co-dominant stems.	Comment only. Comment only. Monitor for signs of decline. Monitor for signs of decline. Monitor for signs of decline. Comment only.	N/A N/A Monitor Monitor Monitor N/A
2	Cypress	-	Early Mature	0-5	MS	Moderate	2	Located in raised bed. Located next to car park.	Comment only. Comment only.	N/A N/A
3	Hawthorn/ Cherry	-	Semi Mature	0-5	MS	High	2	Located in raised bed. Exposed roots. Minor root damage. Minor epicormic growth. Low branches. Minor deadwood. Co-dominant stems.	Comment only. Comment only. Monitor for signs of decline. Remove epicormic growth. Crown raise. Crown clean. Comment only.	N/A N/A Monitor P3 P3 P3 N/A
4	Field Maple	-	Semi Mature	5-10	Ivy	Moderate	2	Minor Ivy. Minor epicormic / trunk growth. Minor trunk damage. Minor deadwood. Asymmetric crown.	Remove Ivy. Formatively prune. Monitor for signs of decline. Crown clean. Comment only.	P3 P3 Monitor P3 N/A

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	SPECIES	TREE TAG NO.	AGE RANGE	HEIGHT (M)	DBH (cm)	VIGOUR	REVIEW YEARS	COMMENTS	MANAGEMENT	WORKS PRIORITY
5	Whitebeam	-	Semi Mature	5-10	26	Moderate	2	Exposed roots. Minor root damage. Minor basal damage. Minor trunk damage. Minor deadwood. Suppressed.	Comment only. Monitor for signs of decline. Monitor for signs of decline. Monitor for signs of decline. Crown clean. Comment only.	N/A Monitor Monitor Monitor P3 N/A
6	Beech	-	Semi Mature	10-15	26	Moderate	2	Exposed roots. Minor root damage. Minor trunk damage. Minor deadwood. Co-dominant stems.	Comment only. Monitor for signs of decline. Monitor for signs of decline. Crown clean. Comment only.	N/A Monitor Monitor P3 N/A
7	Ash	-	Semi Mature	15-20	38	Moderate	2	Exposed roots. Minor root damage. Minor Ivy. Minor deadwood. Co-dominant stems. Signs of Ash Dieback.	Comment only. Monitor for signs of decline. Remove Ivy. Crown clean. Comment only. Monitor for signs of decline.	N/A Monitor P3 P3 N/A Monitor
8	Beech	-	Semi Mature	10-15	32	Moderate	2	Exposed roots. Minor root damage. Minor trunk damage. Low branches. Minor deadwood. Co-dominant stems. Asymmetric crown.	Comment only. Monitor for signs of decline. Monitor for signs of decline. Crown raise. Crown clean. Comment only. Comment only.	N/A Monitor Monitor P3 P3 N/A N/A
G2	Cypress, Holly	-	Early Mature	0-5	MS	Moderate	2	Located in shrub bed.	Comment only.	N/A

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QUANTIFIED TREE RISK ASSESSMENT (QTRA)



Tree safety management is a matter of limiting the risk of harm from tree failure while maintaining the benefits conferred by trees. Although it may seem counterintuitive, the condition of trees should not be the first consideration. Instead, tree managers should consider first the usage of the land on which the trees stand, and in turn this will inform the process of assessing the trees.

The Quantified Tree Risk Assessment (QTRA) system applies established and accepted risk management principles to tree safety management. Firstly, the targets (people and property) upon which trees could fail are assessed and quantified, thus enabling tree managers to determine whether or not and to what degree of rigour a survey or inspection of the trees is required. Where necessary, the tree or branch is then considered in terms of both impact potential (size) and probability of failure. Values derived from the assessment of these three components (target, impact potential and probability of failure) are combined to calculate the probability of significant harm occurring.

The system moves the management of tree safety away from labelling trees as either 'safe' or 'unsafe', thereby requiring definitive statements of tree safety from either tree surveyors or tree managers. Instead, QTRA quantifies the risk of significant harm from tree failure in a way that enables tree managers to balance safety with tree value and operate to a predetermined limit of reasonable or acceptable risk.

Example:

For a given tree:-

- Target value = 3
- Size of part = 3
- Probability of failure = 2
- Risk of significant harm = **1/50K**

In the example above, the target value 3 is used, because the pedestrian frequency on the site is gauged between 2 and 7 per hour; whilst the size of part value 3 is used, because the part most likely to fail has a diameter between 110mm and 250mm. The probability of failure value 2 is used, because it is predicted that out of 10 trees in a similar condition, one tree is likely to suffer branch failure over the next 12 months.



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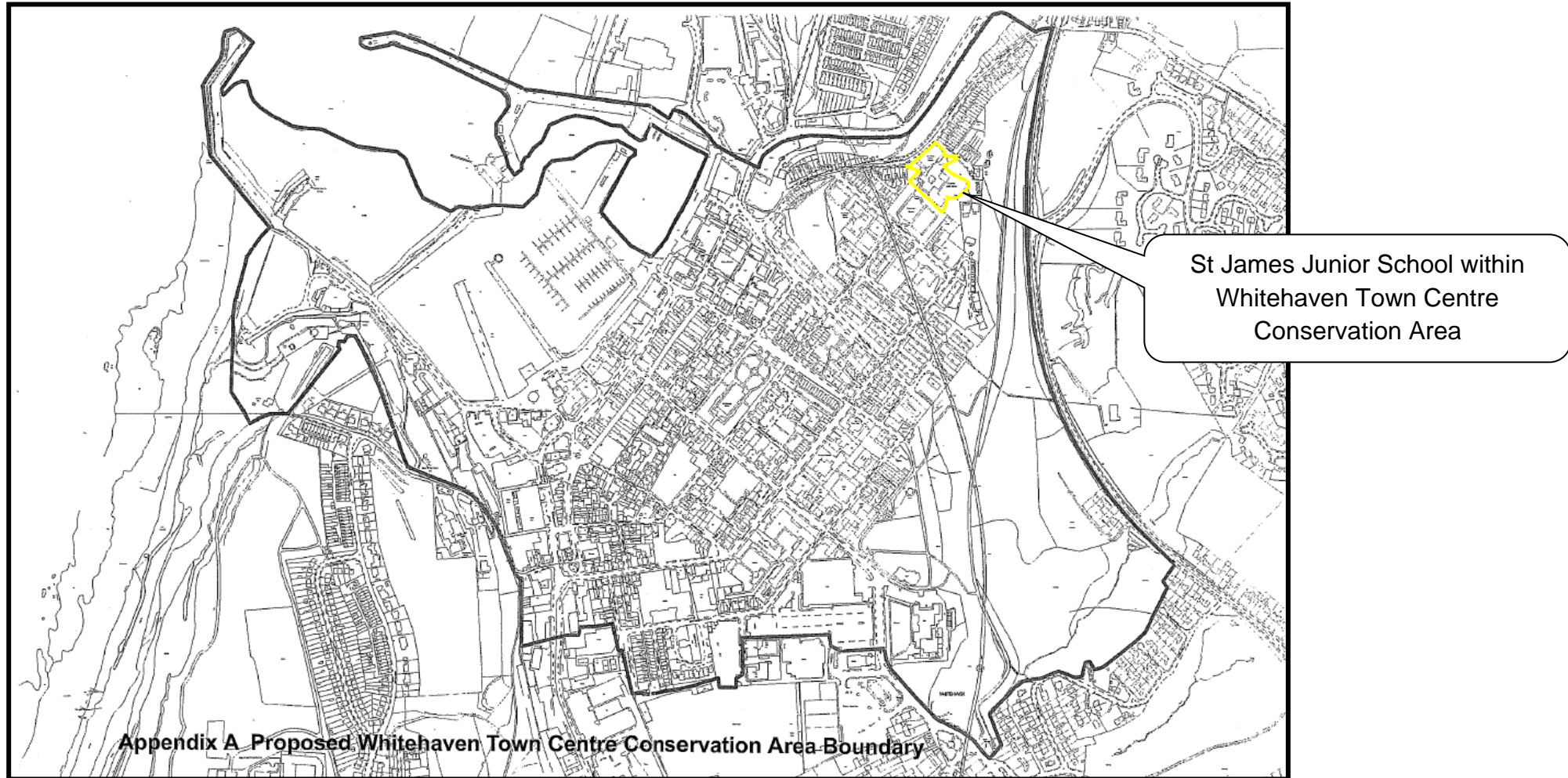
QTRA is based on the premise that a risk of 1/10,000 for significant harm is a broadly acceptable or reasonable level of risk at which tree owners/managers may choose to manage their trees because of their value and many benefits (i.e. 'in the wider interest'). This level is based on work carried out by the British Medical Association, the Health and Safety Executive and others. The owner/manager may, of course, choose to operate at a lower or higher level of risk.

Further details can be found at www.qtra.co.uk

QTRA Assessment for Site

	SPECIES	TARGET RANGE	SIZE RANGE	PROB. FAILURE RANGE	REDUCED MASS %	RISK OF HARM	REVIEW YEARS
1	Cherry	2	3	3	-	1/50K	2

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