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Poole Park Miniature Railway TREE CONSTRAINTS REPORT

To support Development Proposals

At

**Poole Park Miniature Railway
Poole Park
Poole
BH14 8AN**

October 2018

Report by
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Poole Park Miniature Railway – Aerial View

SUMMARY

This is a tree survey and tree constraints plan that seeks to address the constraints imposed by existing trees/tree groups on any potential development within this site. Specifications of any proposed development are not yet known.

The report has been written following the recommendations and guidance given within British Standard 5837 (2012), Trees in relation to design, demolition and construction.

The report is advisory in nature and intended to help inform the design process and is suitable for submission to support an application for either outline or full planning consent.

Thirty-two significant trees and eight tree groups have been identified which may be adversely affected by development if reasonable care is not taken to protect the trees and their rooting systems.

REPORT LIMITATIONS

Trees are living organisms whose health and overall condition can change rapidly. The conclusions and recommendations contained within this report are valid for a period of twelve months. The period of validity may be reduced if significant changes occur to either the trees or to the landscape within the immediate proximity of the trees.

1. INTRODUCTION

- 1.1 On instructions received from Cally Barnes, Project Manager at Poole Borough Council, David Soffe-Hill M.Arbor.A, principle consultant for Complete Arb Services Ltd, undertook a ground level, visual assessment of the trees that could be affected by the development proposal in accordance with BS5837 2012 and best practice and to prepare the following to accompany a planning submission: -
- A schedule of the relevant trees to include survey data and a condition assessment.
 - An appraisal of the constraints imposed by the trees and the potential consequences for the local amenity.
 - A preliminary Arboricultural Method Statement setting out appropriate protective measures and management for trees to be retained.
- Note: This Method Statement is to be reviewed following the submission of design proposals and prior to submission to planning.
- 1.2 The Poole Borough Council interactive mapping system shows these trees are subject to conditions imposed by Poole Park Conservation Area. Tree works may not be carried out in this area without prior consent from the Planning Authority.
- 1.3 Each tree has been given a class rating and Root Protection Area (RPA) measurement worked out using the recognised method detailed within BS5837 2012. BS5837 2012 Tree Quality Assessment Definitions are given in Appendix C.
- 1.4 For the purposes of this survey, a drawing of the site, adapted from drawings provided by Cally Barnes, Project Manager for Poole Borough Council, has been included to show tree IDs, categories and locations of trees within influencing distance of Poole Park Miniature Railway. (See Appendix B).
- 1.5 All the trees of material consideration have been inspected within and immediately adjacent to the proposed development site. These trees are listed at Appendix 1 and annotated on the Tree Plan at Appendix B.

2. SITE VISIT AND COLLECTION OF DATA

- 2.1 The site was visited on 28th September 2018. All observations were from ground level and all dimensions measured, with the exception of tree height which has been estimated, unless otherwise indicated.
- 2.2 Weather conditions at the time of inspection were dry and sunny with good visibility.

3. **IMPACT ASSESSMENT (BS5837) ON TREES**

3.1 **Summary of impact on trees:**

The potential of any development to impact trees has been assessed. All the trees that may be affected by development are listed in table 1 below.

Table 1: Summary of trees that may be affected by development

Impact	Reason	Important/High value A class Trees	Moderate Value B class Trees	Low Value C Class Trees	Trees for Removal- R class trees
Trees to be removed	Dead or poor condition	-	-	-	-
Retained trees that may be damaged through disturbance to RPAs	Removal of existing surfacing/ structures/ Landscaping/ Installation of new surfacing/ structures/ landscaping	G07-G08, T03-T04, T06-T16 & T18	G01-G06, T01-T02, T05, T17, T19-T23	T24-T25 & T28-T31	-
Retained trees to be pruned	Remediation of defects	-	-	-	-

3.2 **Impact Appraisal**

- 3.2.1 Plans supplied by Poole Borough Council Project Manager were used to ascertain the extents of the area to be surveyed in order to assess the influence that the trees on and adjacent to the site may have on any proposed development and vice versa. No details of any proposed development have been supplied.
- 3.2.2 The minimum distances that excavations/soil level changes can be carried out adjacent to the trees surveyed have been calculated by measuring the DBH (diameter at breast height), the RPA (Root Protection Area) is worked out using the recognised method detailed within BS5837 2012. (See Appendix A for minimum distances).
- 3.2.3 There is the potential for tree roots to be damaged during any proposed development. This can occur either through direct mechanical damage or through compaction from vehicles/plant or storage of materials. Damage can also occur through contamination from spillages from mixing areas.
- 3.2.4 Four trees (T03, T13 & T18-T19) have been identified with low branches which may be damaged during any development process.

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- 3.2.5 Five trees (T06-T10) have been identified as containing remedial safety defects.
- 3.2.6 To facilitate the development, some minor protective pruning of T01, to cut back low branches, has been recommended in order to prevent potential damage from the construction works. See tree schedule in Appendix A for recommendation.
- 3.2.7 Importantly, there have been confirmed cases of *Phytophthora pseudosyringae* from tests carried out in May 2017. This infection was deemed responsible for the decline of a number of alder trees in the freshwater area. Infected trees were removed last winter (2017), and again this year. Further removals of infected trees have also been planned for later this year. This means that there is very likely to be *Phytophthora* pathogens in the soil, particularly adjacent to water courses in the fresh water area. Reasonable care should be taken not to spread the *Phytophthora* infection to other areas.

3.3 **Summary of the impact on local amenity**

There is the potential for trees to be adversely affected by any development proposal. Potential damage can be avoided or minimised through a detailed method statement to be agreed by planning before the commencement of any works. Where damage is unavoidable, mitigation should be considered.

4. **General Arboricultural Method Statement**

Summary of recommendations

- 4.1 This Method Statement is generic and considers potential issues regarding tree retention. A revised site-specific Method Statement must be agreed and approved by planning before any development can commence.
- 4.2 Trees to be retained will require the installation of protective fencing, as specified in figure 1 of this section, in order to protect the trees' stems and root systems, as far as is practical, from being damaged by plant movement, storage of materials, spillages etc. during the building process.
- 4.3 The location of protective fencing, ground protection, storage and mixing areas should be detailed in a tree protection plan and agreed by planning. Necessary protective measures should be installed prior to the commencement of any works.
- 4.4 Care should be taken, when carrying out any excavations, and in the removal any existing buildings or surfacing, to ensure no significant roots are damaged.

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- 4.5 Because of the presence of Phytophthora pathogens in the area, reasonable care should be taken not to spread potentially infected material. Movement of soil around the site should be kept to a minimum and no soil or other potentially infected material should be removed from site.
- 4.6 Care should also be taken not to damage overhanging tree branches during the building process. Where required, minor branches should be sensitively pruned to standards set out in BS3998: 2010 Tree Work Recommendations to allow adequate space for the movement of plant. This sort of protective pruning would prevent direct damage/torn branches etc. which may cause long term health or structural problems with these trees.
- 4.7 A designated storage and mixing area must be agreed in order to prevent the risk of tree roots being damaged from the storage of materials, spillages etc. during the building process.
- 4.8 All personnel working in the root protection areas (RPAs) will be properly briefed about their responsibilities towards important trees based on this guidance.
- 4.9 It was not known if there will be a need for the installation of new service runs within the RPAs of any protected trees. Where possible, it is proposed that all new services, if any, are kept outside the RPAs. Trenchless excavations are preferred, but if that is not feasible then hand digging, per guidelines laid out in BS5837 2012. If services do need to be installed within the RPAs a method statement should be prepared and written approval obtained from the planning department before any works are carried out.
- 4.10 Barriers meeting best practice specifications for tree protection will be required to protect the root systems of trees to be retained. See figure 1 overleaf for an example of an acceptable barrier specification.

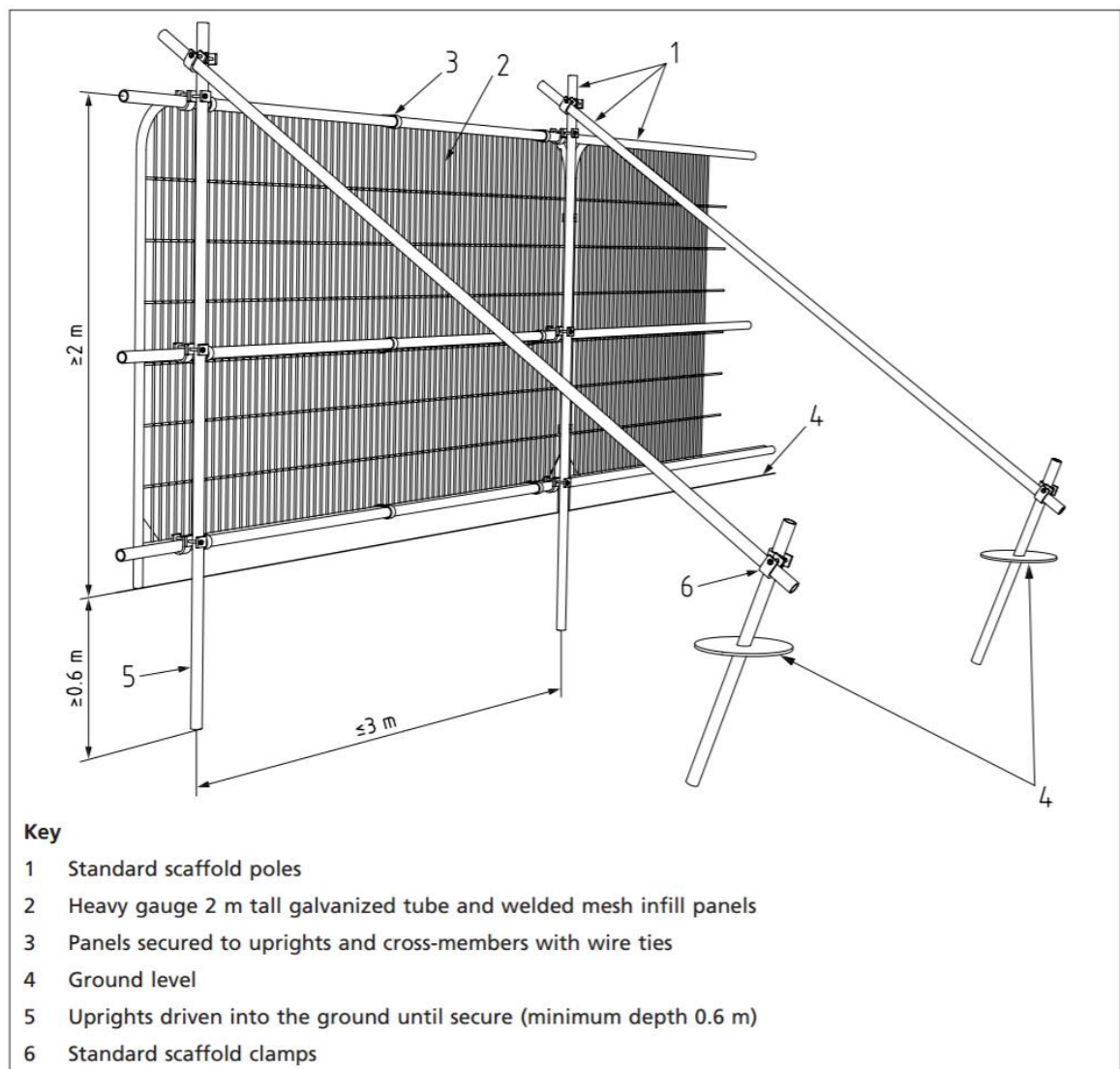


Figure 1 – Example of protective barrier specification

APPENDIX A: SCHEDULE OF TREES SURVEYED

APPENDIX A: Schedule of trees

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
G01	Group, mixed species	Group	Height (m): 10 Crown Clearance (m): 2 Lowest Branch (m): 2(E) Life Stage: Early Mature Physiological Cond: Good Structural Cond: Good Bat Habitat: Low	N/A	Group adjacent to lake Understory vegetation	B1,2	Area: 2.06 sq. m.	No recommendations
G02	Group, mixed species	Group 20 stems	Height (m): 11 20 stems Crown Clearance (m): 3 Lowest Branch (m): 3(W) Life Stage: Mature Cond: Fair Structural Cond: Fair Bat Habitat: Medium	N/A	Linear group on Eastern boundary Evidence of recent maintenance including removal of some dead/dying trees	B2	Area: 4.41 sq. m.	No recommendations
G03	Group, mixed species	Group 11 stems	Height (m): 11 11 stems Life Stage: Mature Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	N/A	Group on lakeside bank	B2	Area: 1.85 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
G04	Group, mixed species	Group 4 stems	Height (m): 9 4 stems Crown Clearance (m): 4 Lowest Branch (m): 3(W) Life Stage: Mature Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	N/A	Small group on lakeside bank	B1,2	Area: 0.85 sq. m.	No recommendations
G05	Group, mixed species	Group 12 stems	Height (m): 6 12 stems Crown Clearance (m): 2 Lowest Branch (m): 1(N) Life Stage: Semi Mature Physiological Cond: Good Structural Cond: Good Bat Habitat: Low	N/A	Small group between track and bank	B2	Area: 1.28 sq. m.	No recommendations
G06	Group, mixed species	Group 5 stems	Height (m): 9 5 stems Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Early Mature Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	N/A	Small group between track and bank	B1,2	Area: 1.15 sq. m.	No recommendations

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Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
G07	Pine, Scots (Pinus sylvestris)	Group 9 stems	Height (m): 11 9 stems Crown Clearance (m): 5 Lowest Branch (m): 8(E) Life Stage: Mature Physiological Cond: Good Structural Cond: Fair Bat Habitat: Low	N/A	Mature group adjacent to Cafe	A1	Area: 1.88 sq. m.	No recommendations
G08	Alder (Alnus sp.)	Group 11 stems	Height (m): 12 11 stems Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Mature Physiological Cond: Fair Structural Cond: Fair Bat Habitat: Medium	N/A	Mature group on lakeside bank Multi-purpose >8m from track	A1,2	Area: 5.74 sq. m.	No recommendations
T01	Alder (Alnus sp.)	Tree 4 stems	Height (m): 9# 4 stems, diam(mm): 240, 270, 310, 270, Crown Clearance (m): 4 Lowest Branch (m): 2(NW) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Medium	N:4 S:3 E:4 W:4	Multi-stemmed Growing on bank Ivy on stem Minor deadwood	B1,2	Radius: 6.6m. Area: 137 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T02	Ash, Common (Fraxinus excelsior)	Tree	Height (m): 10# Stem Diam (mm): 320 Crown Clearance (m): 6 Lowest Branch (m): 6(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Medium	N:3 S:4 E:5 W:5	Group effect Ivy on stem	B1	Radius: 3.8m. Area: 45 sq. m.	No recommendations
T03	Oak (Quercus sp.)	Tree	Height (m): 11 Stem Diam (mm): 620 Crown Clearance (m): 2 Lowest Branch (m): 3(N) Life Stage: Mature Physiological Cond: Good Structural Cond: Good Bat Habitat: Low	N:8 S:4 E:8 W:5	Weighted to North Low branches over tarmac area	A1	Radius: 7.4m. Area: 172 sq. m.	Crown lift to 3m (tertiary branches only)
T004	Ash, Common (Fraxinus excelsior)	Tree	Height (m): 12 Stem Diam (mm): 330 Crown Clearance (m): 3 Lowest Branch (m): 4(N) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:3 S:3 E:3 W:3	Minor deadwood	A1	Radius: 4.0m. Area: 50 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T005	Oak (Quercus sp.)	Tree	Height (m): 9 Stem Diam (mm): 330 Crown Clearance (m): 3 Lowest Branch (m): 4(SW) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:3 E:1 W:4	Group effect Minor deadwood	B1	Radius: 4.0m. Area: 50 sq. m.	No recommendations
T006	Oak (Quercus sp.)	Tree	Height (m): 15 Stem Diam (mm): 710 Crown Clearance (m): 7 Lowest Branch (m): 3.5(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:7 S:6 E:7 W:5	Group effect Deadwood	A1	Radius: 8.5m. Area: 227 sq. m.	Remove major deadwood
T007	Ash (Fraxinus sp.)	Tree	Height (m): 17 Stem Diam (mm): 610 Crown Clearance (m): 3 Lowest Branch (m): 5(NW) Life Stage: Mature Physiological Cond: Fair Structural Cond: Fair Bat Habitat: Low	N:5 S:5 E:6 W:5	Hanging branch Deadwood	A1	Radius: 7.3m. Area: 167 sq. m.	Remove hanging branch and major deadwood

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Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T08	Oak (Quercus sp.)	Tree	Height (m): 18 Stem Diam (mm): 110 Crown Clearance (m): 8 Lowest Branch (m): 5(SE) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:6 S:8 E:7 W:8	Truncated limb Deadwood	A1	Radius: 1.3m. Area: 5 sq. m.	Remove major deadwood
T09	Oak (Quercus sp.)	Tree	Height (m): 15 Stem Diam (mm): 590 Crown Clearance (m): 3 Lowest Branch (m): 3(SW) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:9 S:4 E:5 W:7	Truncated limb Deadwood Minor root damage	A1	Radius: 7.1m. Area: 158 sq. m.	Remove major deadwood
T010	Oak (Quercus sp.)	Tree	Height (m): 14 Stem Diam (mm): 720 Crown Clearance (m): 5 Lowest Branch (m): 3(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:6 S:7 E:6 W:6	Deadwood Minor root/buttreass damage	A1	Radius: 8.6m. Area: 232 sq. m.	Remove major deadwood

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T011	Chestnut, Horse (Aesculus hippocastanum)	Tree	Height (m): 12 Stem Diam (mm): 450 Crown Clearance (m): 3 Lowest Branch (m): 3(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:3 S:3 E:3 W:3	Minor bleeding canker Near surface roots	A1	Radius: 5.4m. Area: 92 sq. m.	No recommendations
T012	Lime (Tilia sp.)	Tree	Height (m): 8 Stem Diam (mm): 280 Crown Clearance (m): 2 Lowest Branch (m): 2(W) Life Stage: Early Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:2 E:2 W:2	Damaged branch to west Minor inclusion of primary union Near surface rooting	A1	Radius: 3.4m. Area: 36 sq. m.	No recommendations
T013	Oak (Quercus sp.)	Tree	Height (m): 17 Stem Diam (mm): 750# Crown Clearance (m): 2 Lowest Branch (m): 3(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:6 S:7 E:7 W:7	Private tree with low branches over railway tracks	A1	Radius: 9.0m. Area: 254 sq. m.	Crown lift over tracks to 3m

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T014	Oak (Quercus sp.)	Tree	Height (m): 16 Stem Diam (mm): 910 Crown Clearance (m): 3 Lowest Branch (m): 3(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Medium	N:6 S:6 E:6 W:5	Ivy clad stem	A1	Radius: 10.9m. Area: 373 sq. m.	No recommendations
T015	Redwood, Dawn (Metasequoia glyptostroboides)	Tree	Height (m): 5 Stem Diam (mm): 160 Crown Clearance (m): 1 Lowest Branch (m): 1(N) Life Stage: Semi Mature Physiological Cond: Good Structural Cond: Good Bat Habitat: Medium	N:2 S:2 E:2 W:2		A1	Radius: 1.9m. Area: 11 sq. m.	No recommendations
T016	Pine, Scots (Pinus sylvestris)	Tree	Height (m): 16 Stem Diam (mm): 580 Crown Clearance (m): 5 Lowest Branch (m): 5(W) Life Stage: Mature Physiological Cond: Good Structural Cond: Good Bat Habitat: Low	N:3 S:4 E:5 W:3	Weighted slightly to Northwest	A1	Radius: 7.0m. Area: 154 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T017	Pine, Scots (Pinus sylvestris)	Tree	Height (m): 12 Stem Diam (mm): 470 Crown Clearance (m): 5 Lowest Branch (m): 7(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:4 S:4 E:3 W:3		B1	Radius: 5.6m. Area: 99 sq. m.	No recommendations
T018	Lime (Tilia sp.)	Tree	Height (m): 9 Stem Diam (mm): 350 Crown Clearance (m): 1 Lowest Branch (m): 3(NE) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:3 S:3 E:3 W:3	Low branches over footpath	A1	Radius: 4.2m. Area: 55 sq. m.	Crown lift to 2m over footpath
T019	Alder (Alnus sp.)	Tree	Height (m): 9 Stem Diam (mm): 530 Crown Clearance (m): 2 Lowest Branch (m): 3(E) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:4 S:6 E:5 W:4	On lakeside bank Change in soil levels (minor) Low branches over footpath	B1	Radius: 6.4m. Area: 129 sq. m.	Crown lift to 2m over footpath

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T020	Whitebeam (Sorbus aria)	Tree	Height (m): 8 Stem Diam (mm): 470 Crown Clearance (m): 1 Lowest Branch (m): 1.5(SE) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:3 S:4 E:4 W:3	On lakeside bank	B1	Radius: 5.6m. Area: 99 sq. m.	No recommendations
T021	Willow (Salix sp.)	Tree	Height (m): 10 Stem Diam (mm): 530 Crown Clearance (m): 2 Lowest Branch (m): 2(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Fair Bat Habitat: Low	N:4 S:4 E:5 W:3	Multi-stemmed Minor deadwood	B1	Radius: 6.4m. Area: 129 sq. m.	No recommendations
T022	Willow (Salix sp.)	Tree	Height (m): 8 Stem Diam (mm): 440 Crown Clearance (m): 2 Lowest Branch (m): 2(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Fair Bat Habitat: Low	N:4 S:4 E:2 W:4	Multi-stemmed Minor stem cavity near base	B1	Radius: 5.3m. Area: 88 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T023	Alder (Alnus sp.)	Tree	Height (m): 8 Stem Diam (mm): 390 Crown Clearance (m): 2 Lowest Branch (m): 2(E) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:4 S:3 E:3 W:3	Minor apical dieback	B1	Radius: 4.7m. Area: 69 sq. m.	No recommendations
T024	Other	Tree	Height (m): 5 Stem Diam (mm): 370 Crown Clearance (m): 2 Lowest Branch (m): 1(W) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:3 E:1 W:2	Truncated pruning stubs Minor deadwood	C1	Radius: 4.4m. Area: 61 sq. m.	No recommendations
T025	Other	Tree	Height (m): 6 Stem Diam (mm): 410 Crown Clearance (m): 2 Lowest Branch (m): 1(N) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:3 S:4 E:3 W:2	Truncated pruning stubs Minor deadwood	C1	Radius: 4.9m. Area: 75 sq. m.	No recommendations

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Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T026	Maple (Acer sp.)	Tree	Height (m): 8 Stem Diam (mm): 430 Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Medium	N:6 S:5 E:4 W:5	Ivy clad	B1	Radius: 5.2m. Area: 85 sq. m.	No recommendations
T027	Apple (Malus sp.)	Tree	Height (m): 7 Stem Diam (mm): 310 Crown Clearance (m): 1 Lowest Branch (m): 1.5(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:3 E:3 W:3		B1	Radius: 3.7m. Area: 43 sq. m.	No recommendations
T028	Other	Tree	Height (m): 5 Stem Diam (mm): 280 Crown Clearance (m): 2 Lowest Branch (m): 1(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:2 E:2 W:2	Minor apical dieback	C1	Radius: 3.4m. Area: 36 sq. m.	No recommendations

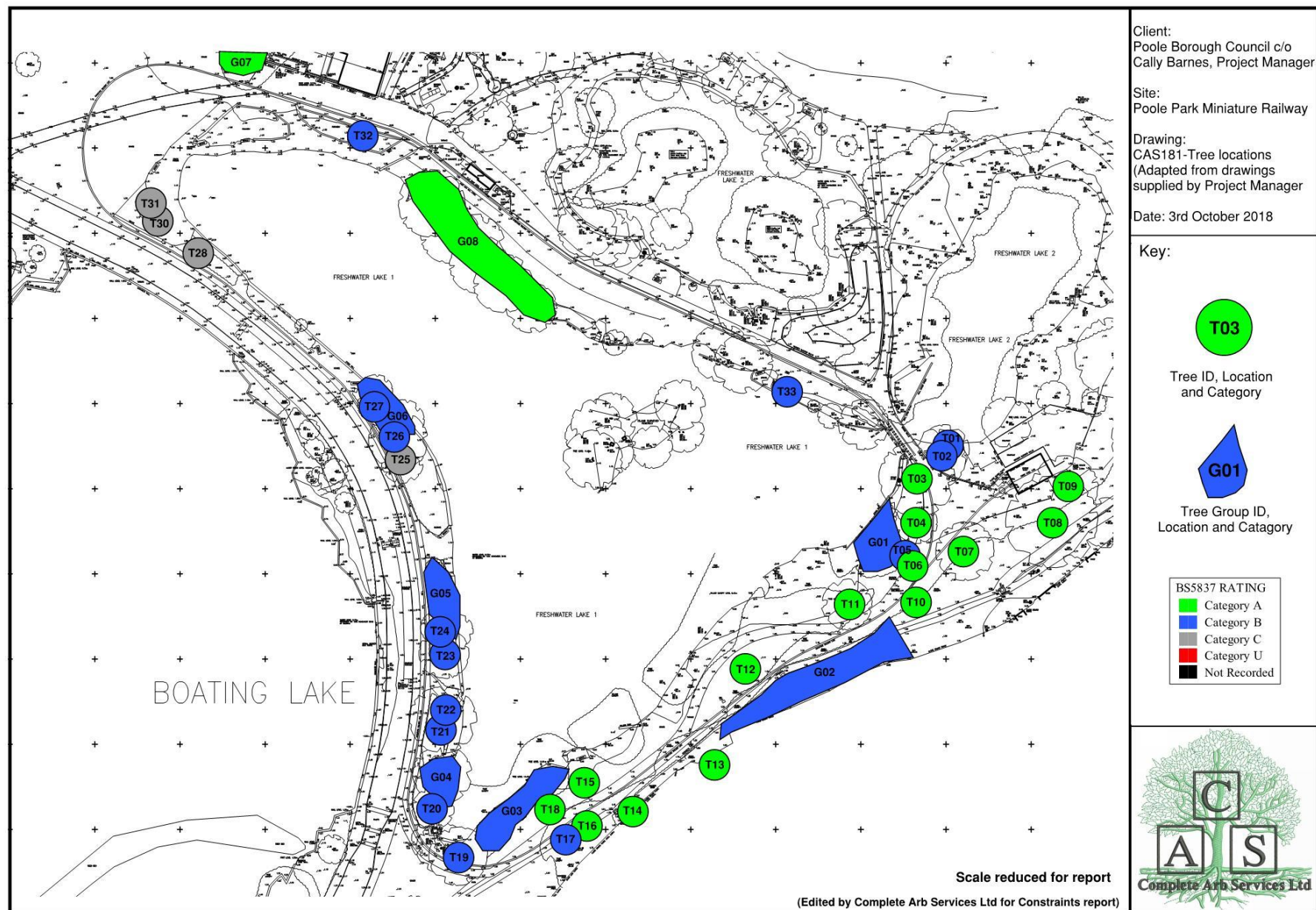
APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T030	Other	Tree 5 stems	Height (m): 3 5 stems, avg.(mm): 200 Crown Clearance (m): 2 Lowest Branch (m): 1(N) Life Stage: Semi Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:2 E:2 W:2	Palm in raised bed	C1	Radius: 5.4m. Area: 92 sq. m.	No recommendations
T031	Other	Tree 2 stems	Height (m): 6 2 stems, avg.(mm): 240 Crown Clearance (m): 3 Lowest Branch (m): 2(S) Life Stage: Early Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:2 E:2 W:2	Palm in raised bed	C1	Radius: 4.1m. Area: 53 sq. m.	No recommendations
T032	Ash, Common (Fraxinus excelsior)	Tree	Height (m): 4 Stem Diam (mm): 220 Crown Clearance (m): 2 Lowest Branch (m): 2(N) Life Stage: Early Mature Physiological Cond: Fair Structural Cond: Good Bat Habitat: Low	N:2 S:2 E:2 W:2	Historically reduced Pruning stubs	B1	Radius: 2.6m. Area: 21 sq. m.	No recommendations

APPENDIX A: SCHEDULE OF TREES SURVEYED

Ref	Species	Full Structure	Measurements	Spread	General Observations	Retention Category	RPA	Recommendations
T033	Alder (Alnus sp.)	Tree	Height (m): 11 Stem Diam (mm): 310 Crown Clearance (m): 2 Lowest Branch (m): 0(S) Life Stage: Mature Physiological Cond: Fair Structural Cond: Fair Bat Habitat: Low	N:3 S:3 E:3 W:2	On lakeside bank Maturing basal growth	B1	Radius: 3.7m. Area: 43 sq. m.	No recommendations

APPENDIX B: SITE PLAN SHOWING TREE REFERENCE NUMBERS, LOCATIONS AND CATAGORIES



APPENDIX C: BS5837 2012 TREE QUALITY ASSESSMENT DEFINITIONS

TREES FOR REMOVAL				
Category & Definition	Criteria			Identification on Plan
Category U 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	- 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 U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are 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			DARK RED
TREES TO BE CONSIDERED FOR RETENTION				
Category & Identification	Criteria - Subcategories			Identification on plan
	1. Mainly Arboricultural values	2. Mainly landscape values	3. Mainly cultural values including conservation	
Category A Trees of high quality with an estimated remaining life expectancy of at least of 40 years	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups or of formal or semi-formal Arboricultural features (e.g. the dominant and/or principal trees within an avenue	Trees, groups or woodlands of particular visual importance as Arboricultural and/or landscape features	Tree groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)	LIGHT GREEN
Category B Trees of moderate quality with an estimated remaining life expectancy of at least of 20 years	Trees that might be included in the high category. But are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually 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 visual contribution to the wider locality	Trees with material conservation or other cultural benefits	MID BLUE
Category C Trees of low quality with an estimated remaining life expectancy of at least of 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 significantly greater landscape value and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural benefits	GREY