

## **Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility Arboriculture Baseline Note edp7470\_r002e**

### **1. Introduction**

- 1.1 The Environmental Dimension Partnership Ltd (EDP) has been commissioned by LanzaTech UK Limited (hereafter referred to as the ‘the Applicant’) to undertake a *BS 5837:2012 Trees in Relation to Design, Demolition and Construction* compliant survey of trees in relation to the proposed development of Land at Crown Wharf, Port Talbot Docks (hereafter referred to as ‘the Study Area’).
- 1.2 EDP is an independent environmental planning consultancy with offices in Cirencester, Cardiff and Cheltenham. The practice provides advice to private and public sector clients throughout the UK in the fields of landscape, ecology, archaeology, cultural heritage, arboriculture, rights of way and masterplanning. Details of the practice can be obtained at our website ([www.edp-uk.co.uk](http://www.edp-uk.co.uk)).
- 1.3 The Study Area is located south of Port Talbot centre and to the north of the Port Talbot Steelworks within the Local Planning Authority (LPA) of Neath Port Talbot Council (NPTC). It currently comprises undeveloped areas, with portions of concrete hard standing and a section of disused railway.
- 1.4 The survey was initially carried out on 14 July 2022. Further surveying was carried out on 04 October 2022 and 03 July 2023 as additional extents were added to the Study Area.

### **2. Methodology and Limitations**

- 2.1 The methodology adopted for this survey is based on guidelines set out in *BS 5837:2012 Trees in Relation to Design, Demolition and Construction*, especially Section 4.4, ‘Tree Survey’. Site trees and other significant vegetation are as noted on the Tree Constraints Plan (**Annex EDP 1**) and this data has been derived from topographical survey data. All surveyed items are detailed in **Annex EDP 2**. No other trees are covered by this survey.
- 2.2 All trees have been visually inspected from ground level unless otherwise stated, with no climbing or further detailed investigative tests being undertaken. The comments on their condition are based on observable factors present at the time of inspection. All measurements are metric and have been recorded in accordance with the measurement conventions set out in Section 4.4.2.6 of BS 5837:2012.



- 2.3 Any recommendations given regarding longer-term management are made on the basis of optimising the life expectancy of site trees, given their current situation and any effects that may result from the development proposals.
- 2.4 The schedule in **Annex EDP 2** provides information about the following factors in accordance with Section 4.4.2.5 of BS 5837:2012:
- Sequential reference number (recorded on **Plan EDP 1**);
  - Species;
  - Height;
  - Stem diameter;
  - Branch spread;
  - Canopy clearance above ground level;
  - Life stage;
  - Physiological condition;
  - Structural condition;
  - Comments/notes;
  - Recommendations (and tree work priority);
  - Estimated remaining contribution;
  - Category grading; and
  - Root protection radius.
- 2.5 Due to the changing nature of trees and other site circumstances, this report and any recommendations made are limited to a 24-month period from the survey date. Any alterations to the Study Area could change the current circumstances and may invalidate this report and any recommendations made.
- 2.6 Trees are dynamic structures that can never be guaranteed 100% safe; even those in good condition can suffer damage under average conditions. Regular inspections can help to identify potential problems before they become acute.



2.7 A lack of recommended work does not imply that a tree is safe and likewise, it should not be implied that a tree will be made safe following the completion of any recommended work.

2.8 The subject trees have not been tagged for identification purposes.

### 3. Aims and Objectives

3.1 The purpose of this Baseline Note is to:

- Identify principal trees suitable for retention; and
- Identify the constraints associated with retained trees to inform the design and layout of any forthcoming proposals and, in turn, inform an Arboricultural Impact Assessment.

### 4. Summary of Tree Stock

4.1 The survey has identified 64 individual trees and 62 groups of trees, totalling 126 items. Of these 126 items, 13 have been categorised as B, of moderate quality; and 110 have been categorised as C and are of low quality. In addition, three items have been categorised as U and are considered unsuitable for retention.

4.2 All surveyed items are as noted on **Annex EDP 1** and detailed in the schedule at **Annex EDP 2**.

4.3 An illustrative summary of the species diversity, age distribution and grading categorisation for the Study Area is provided in **Annex EDP 3**.

4.4 Overall, the items identified across the Study Area are primarily of self-sown trees of low value, with the exception of 13 category B items. These category B items are located within the boundaries of the Study Area, and therefore may represent a constraint.

### 5. Local Planning Policy

#### **Neath Port Talbot Council's Local Planning Policy**

*Local Development Plan 2011–2026 (Adopted January 2016)*

5.1 Policy EN7: Important Natural Features states:

*“Development proposals that would adversely affect ecologically or visually important natural features such as trees, woodlands, hedgerows / field boundaries, watercourses or ponds will only be permitted where:*



1. *Full account has been taken of the relevant features in the design of the development, with measures put in place to ensure that they are retained and protected wherever possible; or*
2. *The biodiversity value and role of the relevant feature has been taken into account and where removal is unavoidable, mitigation measures are agreed."*

## **6. Statutory Protection**

### ***Tree Preservation Orders and Conservation Areas***

- 6.1 The Study Area is not within a designated conservation area nor are any specimens subject to Tree Preservation Orders.

## **7. Protected Wildlife and Trees**

### ***Bats***

- 7.1 All species of British bat comprise European Protected Species (EPS) and are afforded it protection under the *Conservation of Habitats and Species Regulations* 2017 (as amended). Further information is provided in **Annex EDP 4**.

### ***Nesting Birds***

- 7.2 All wild birds, their nests and eggs are protected under Section 1 of the *Wildlife and Countryside Act* 1981 (as amended). Harm to wild birds can mostly be avoided by timing works to avoid the main bird breeding season, considered to run between March and August inclusive. Further information on their protection is provided in **Annex EDP 4**.

## **8. Site-specific Constraints**

- 8.1 As shown by **Annex EDP 1**, the surveyed items located across the Study Area are primarily self-sown trees of low or no arboricultural value.
- 8.2 A number of items are located outside, but adjacent to the Study Area, and therefore these items are not under the control of the Client. Items outside of the clients control require consideration when designing forthcoming proposals as to avoid interference with the trees canopy or root protection area (RPA).
- 8.3 Further information on above and below ground arboricultural constraints is provided in **Annex EDP 5**.



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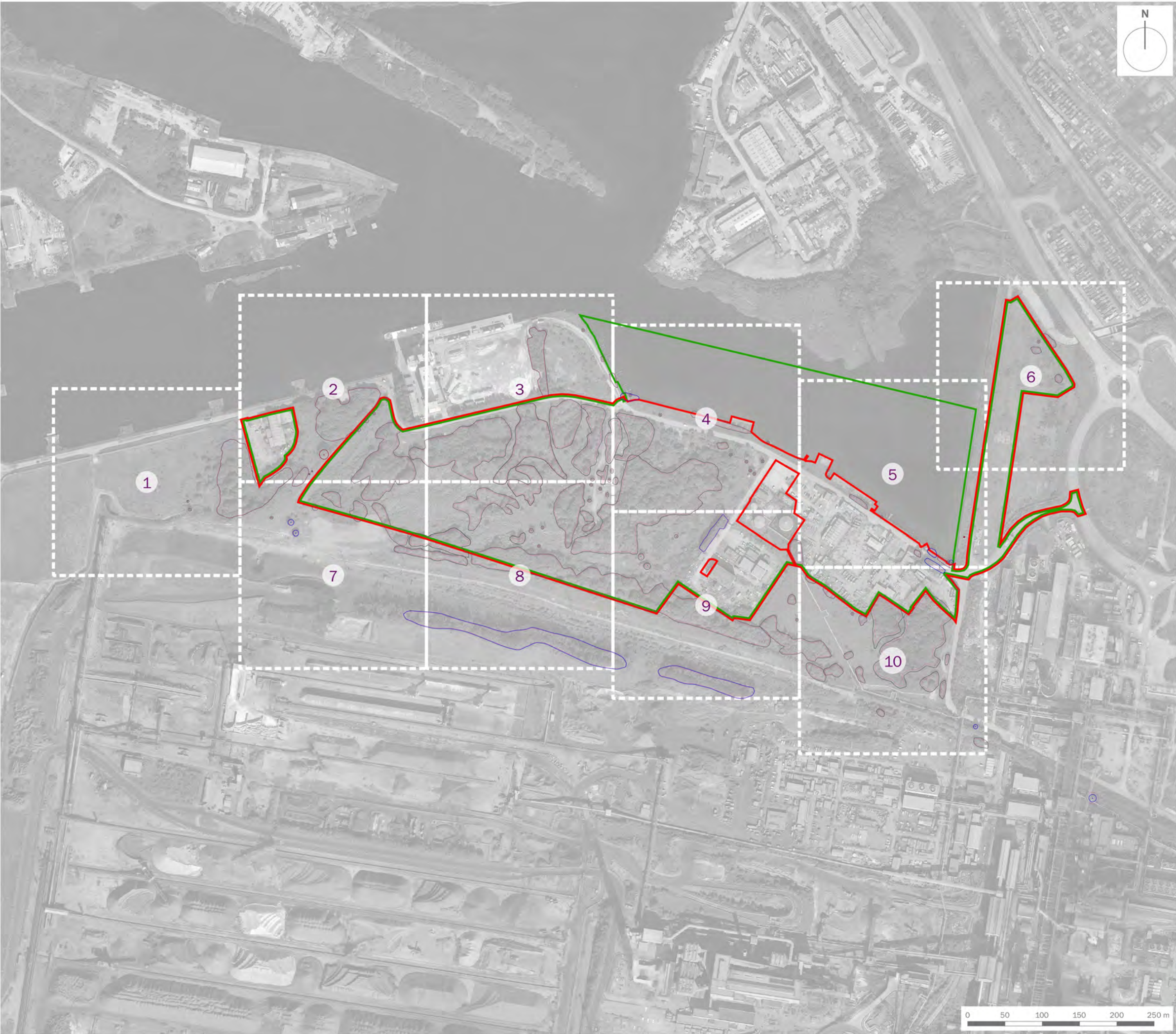
## **9. Conclusion**

- 9.1 Of the items surveyed, 13 items have been categorised as B, of moderate quality. These items should be prioritised for retention, where practicable. These category B items are located within the Study Area in such a way that they may represent a constraint.
- 9.2 All trees provide positive environmental and ecological contributions, irrespective of current condition. The default position, when designing any new development is typically to seek to retain all trees insofar as is practicable, regardless of category grading. However, in this instance, it is understood that due to the nature of the proposed scheme and, in particular, in light of significant fire/explosion risk issues, that it is the case that all existing trees will need to be removed as part of the proposals. On this basis, mitigation of tree loss will need to be considered on an 'off site' basis, alongside offsite mitigation for biodiversity etc.



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**Annex EDP 1**  
**Tree Constraints Plan**  
(edp7470\_d001e 19 October 2023 DJo/DGa)



Site Boundary

EIA Study Area Boundary

T1

Tree/Group Number

Tree/Group Canopy

Tree Stem

Root Protection Area

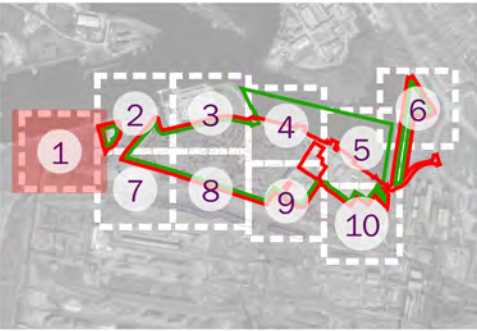
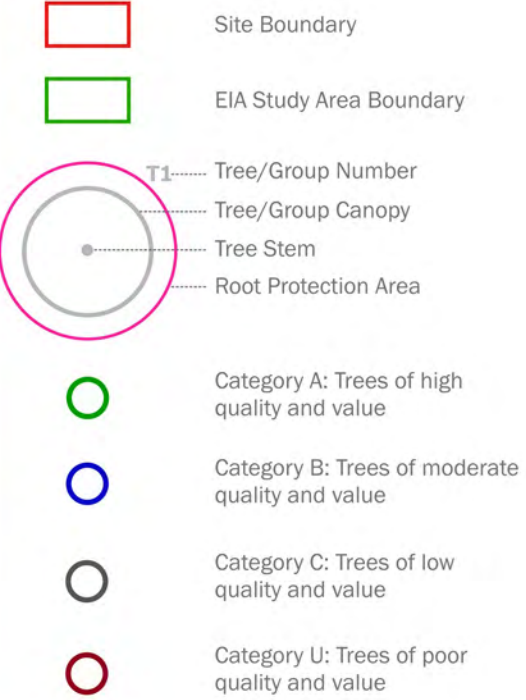
Category A: Trees of high quality and value

Category B: Trees of moderate quality and value

Category C: Trees of low quality and value

Category U: Trees of poor quality and value

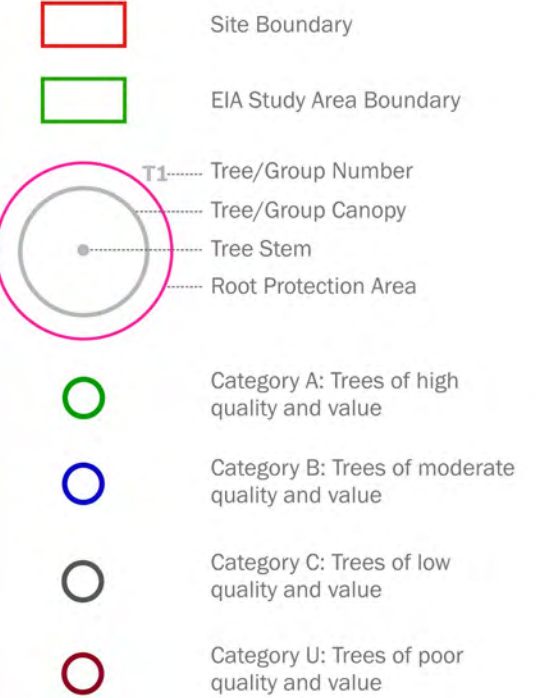
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|----------------|----------------------------------------------------------------------|----------|-----|--|
| client         | LanzaTech UK Limited                                                 |          |     |  |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |  |
| drawing title  | Tree Constraints Plan (Overview)                                     |          |     |  |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |  |
| drawing number | edp7470_d001e                                                        | checked  | DGa |  |
| scale          | 1:5,000 @ A3                                                         | QA       | VMS |  |



|                |                                                                      |          |     |
|----------------|----------------------------------------------------------------------|----------|-----|
| client         | LanzaTech UK Limited                                                 |          |     |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |
| drawing title  | Tree Constraints Plan (Sheet 1 of 10)                                |          |     |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |
| drawing number | edp7470_d001e                                                        | checked  | DGa |
| scale          | 1:1,000 @ A3                                                         | QA       | VMS |

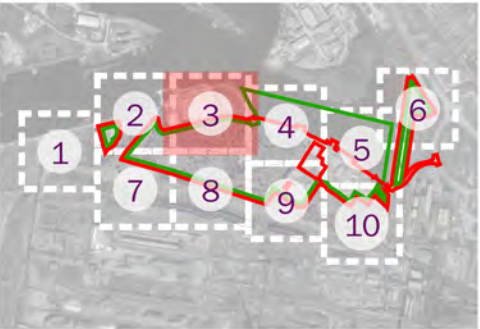
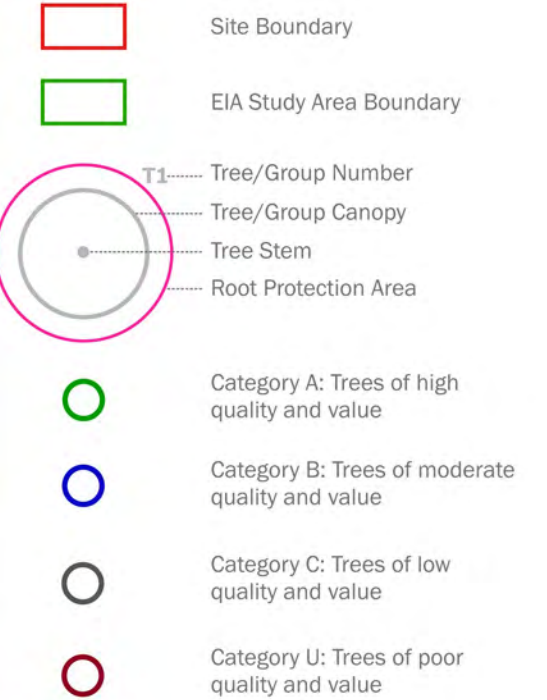


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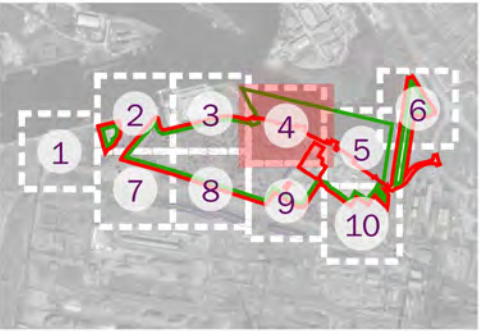
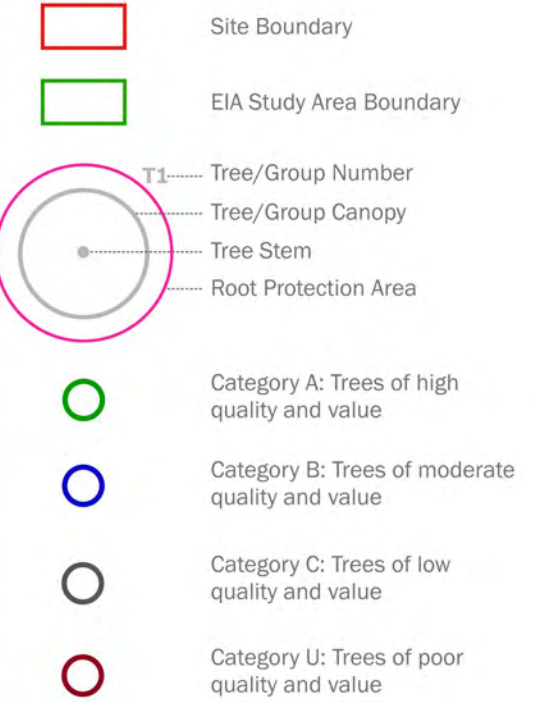
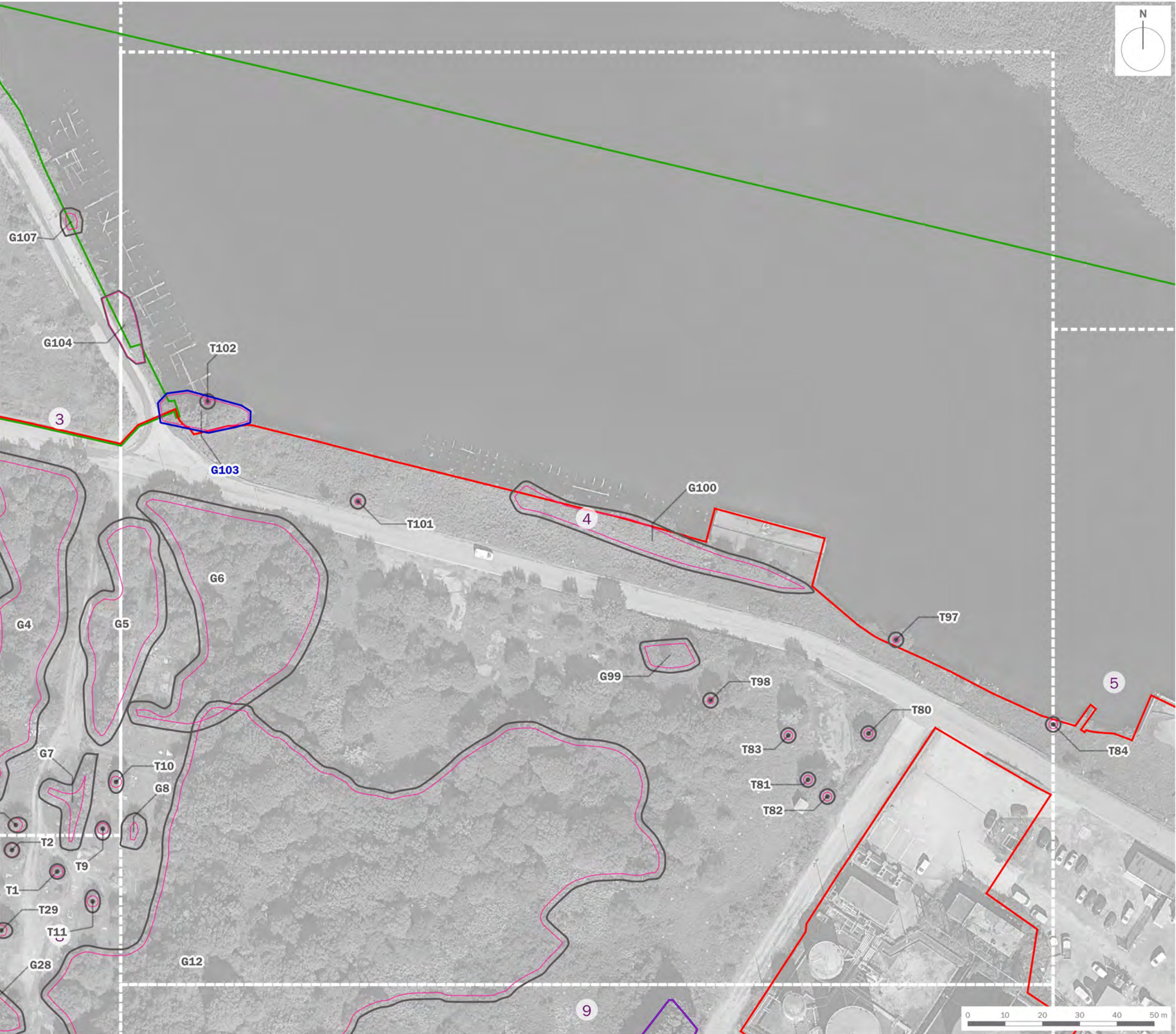


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| client                                                               |                 |          |     |
| LanzaTech UK Limited                                                 |                 |          |     |
| project title                                                        |                 |          |     |
| Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |                 |          |     |
| drawing title                                                        |                 |          |     |
| Tree Constraints Plan (Sheet 2 of 10)                                |                 |          |     |
| date                                                                 | 19 OCTOBER 2023 | drawn by | DJo |
| drawing number                                                       | edp7470_d001e   | checked  | DGa |
| scale                                                                | 1:1,000 @ A3    | QA       | VMS |



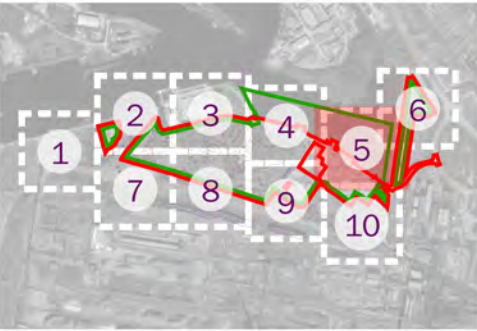
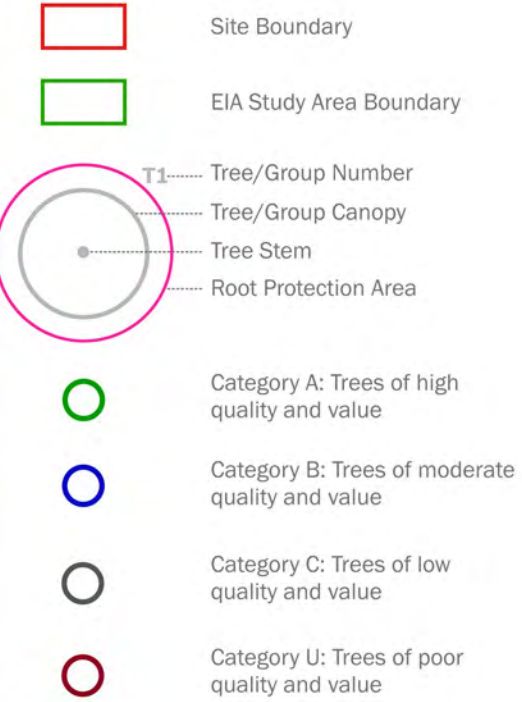
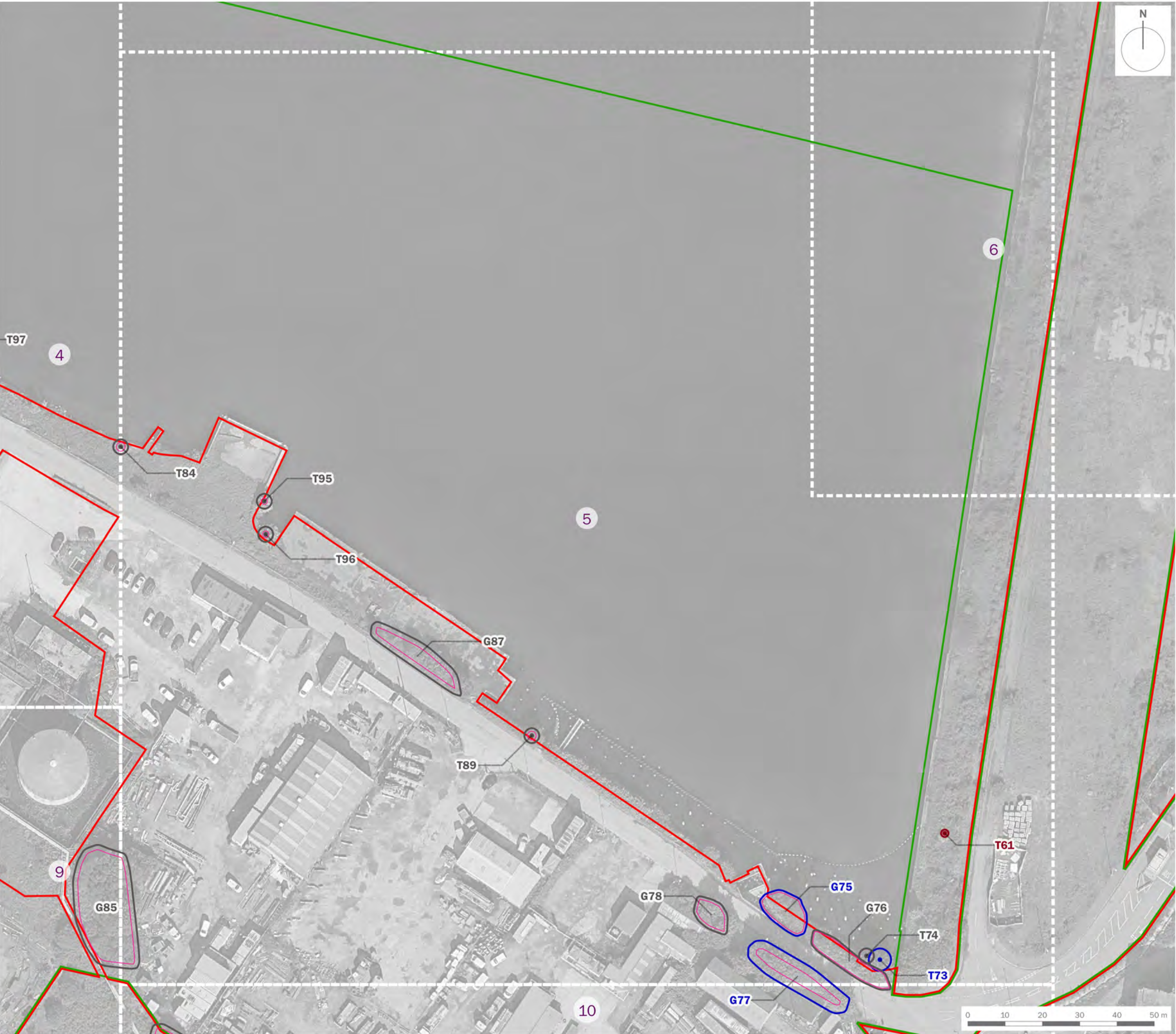


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|----------------|----------------------------------------------------------------------|----------|-----|
| client         | LanzaTech UK Limited                                                 |          |     |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |
| drawing title  | Tree Constraints Plan (Sheet 3 of 10)                                |          |     |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |
| drawing number | edp7470_d001e                                                        | checked  | DGa |
| scale          | 1:1,000 @ A3                                                         | QA       | VMS |



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|----------------|----------------------------------------------------------------------|----------|-----|
| client         | LanzaTech UK Limited                                                 |          |     |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |
| drawing title  | Tree Constraints Plan (Sheet 4 of 10)                                |          |     |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |
| drawing number | edp7470_d001e                                                        | checked  | DGa |
| scale          | 1:1,000 @ A3                                                         | QA       | VMS |





client

**LanzaTech UK Limited**

project title

**Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility**

drawing title

**Tree Constraints Plan (Sheet 5 of 10)**

|                |                        |          |            |
|----------------|------------------------|----------|------------|
| date           | <b>19 OCTOBER 2023</b> | drawn by | <b>DJo</b> |
| drawing number | <b>edp7470_d001e</b>   | checked  | <b>DGa</b> |
| scale          | <b>1:1,000 @ A3</b>    | QA       | <b>VMS</b> |

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Site Boundary

EIA Study Area Boundary

T1

Tree/Group Number

Tree/Group Canopy

Tree Stem

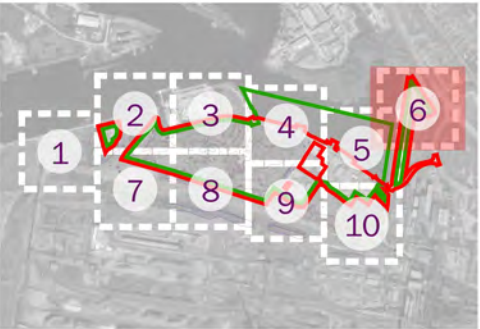
Root Protection Area

Category A: Trees of high quality and value

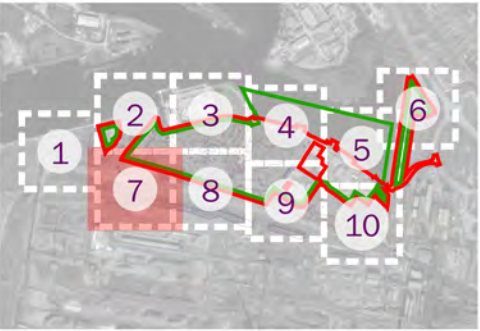
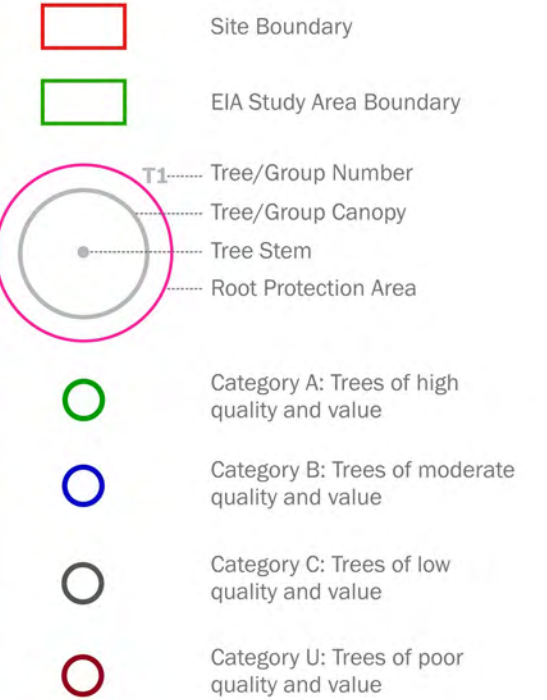
Category B: Trees of moderate quality and value

Category C: Trees of low quality and value

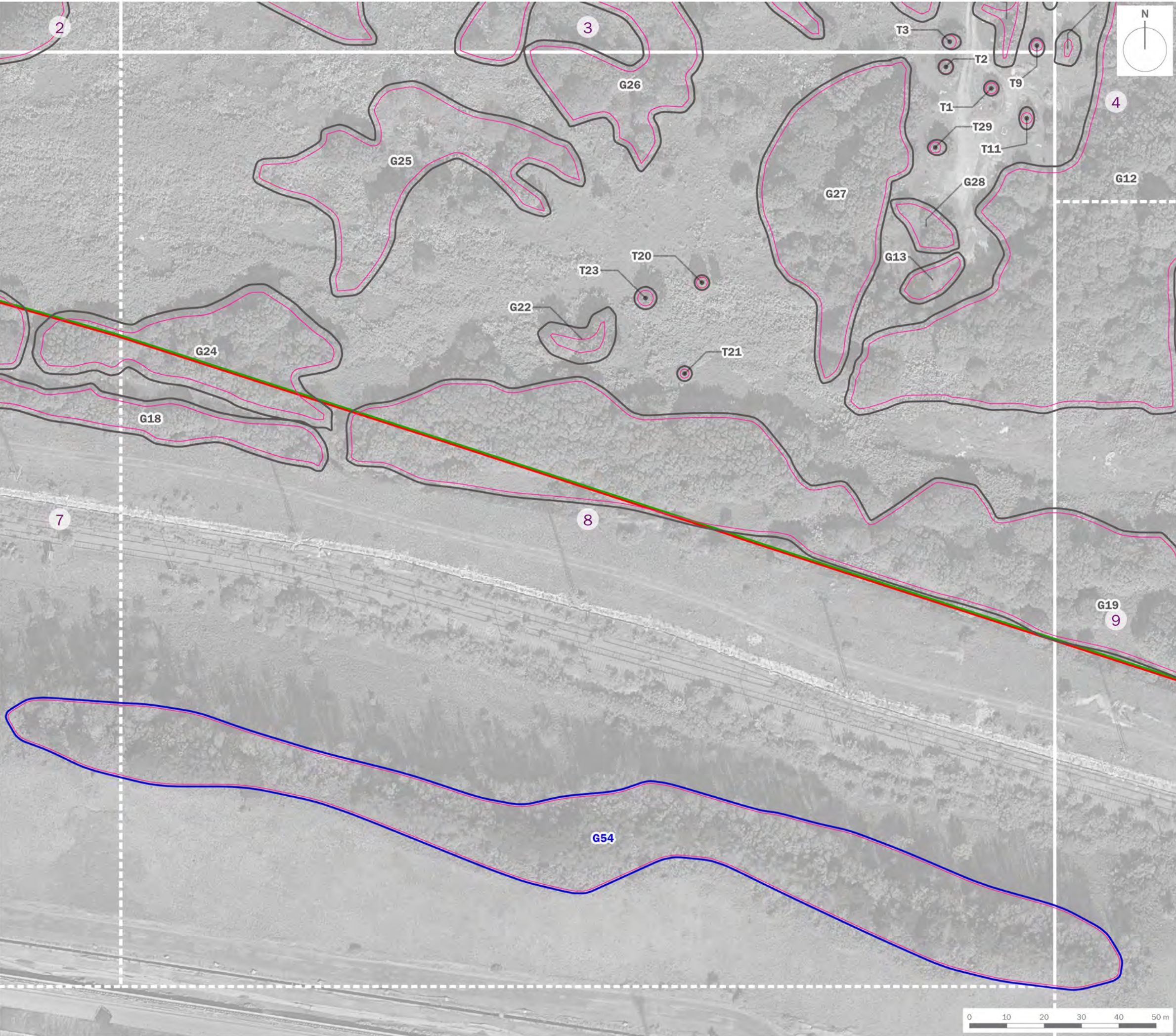
Category U: Trees of poor quality and value



|                                                                      |                 |          |     |
|----------------------------------------------------------------------|-----------------|----------|-----|
| client                                                               |                 |          |     |
| LanzaTech UK Limited                                                 |                 |          |     |
| project title                                                        |                 |          |     |
| Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |                 |          |     |
| drawing title                                                        |                 |          |     |
| Tree Constraints Plan (Sheet 6 of 10)                                |                 |          |     |
| date                                                                 | 19 OCTOBER 2023 | drawn by | DJo |
| drawing number                                                       | edp7470_d001e   | checked  | DGa |
| scale                                                                | 1:1,000 @ A3    | QA       | VMS |



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|----------------|----------------------------------------------------------------------|----------|-----|--|
| client         | LanzaTech UK Limited                                                 |          |     |  |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |  |
| drawing title  | Tree Constraints Plan (Sheet 7 of 10)                                |          |     |  |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |  |
| drawing number | edp7470_d001e                                                        | checked  | DGa |  |
| scale          | 1:1,000 @ A3                                                         | QA       | VMS |  |



Site Boundary

EIA Study Area Boundary

T1

Tree/Group Number

Tree/Group Canopy

Tree Stem

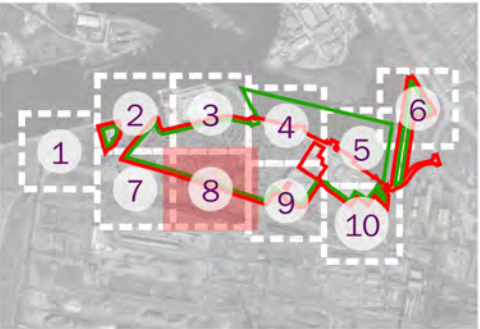
Root Protection Area

Category A: Trees of high quality and value

Category B: Trees of moderate quality and value

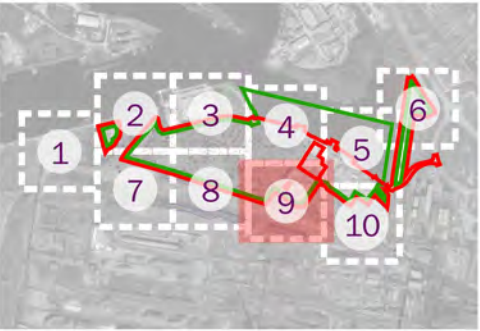
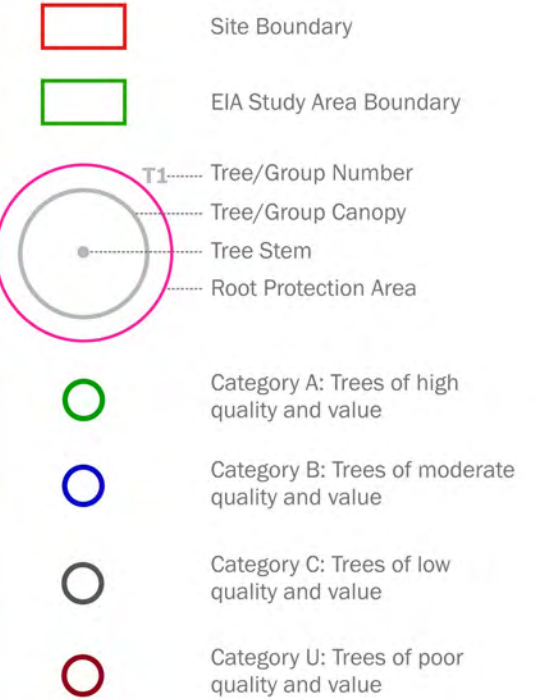
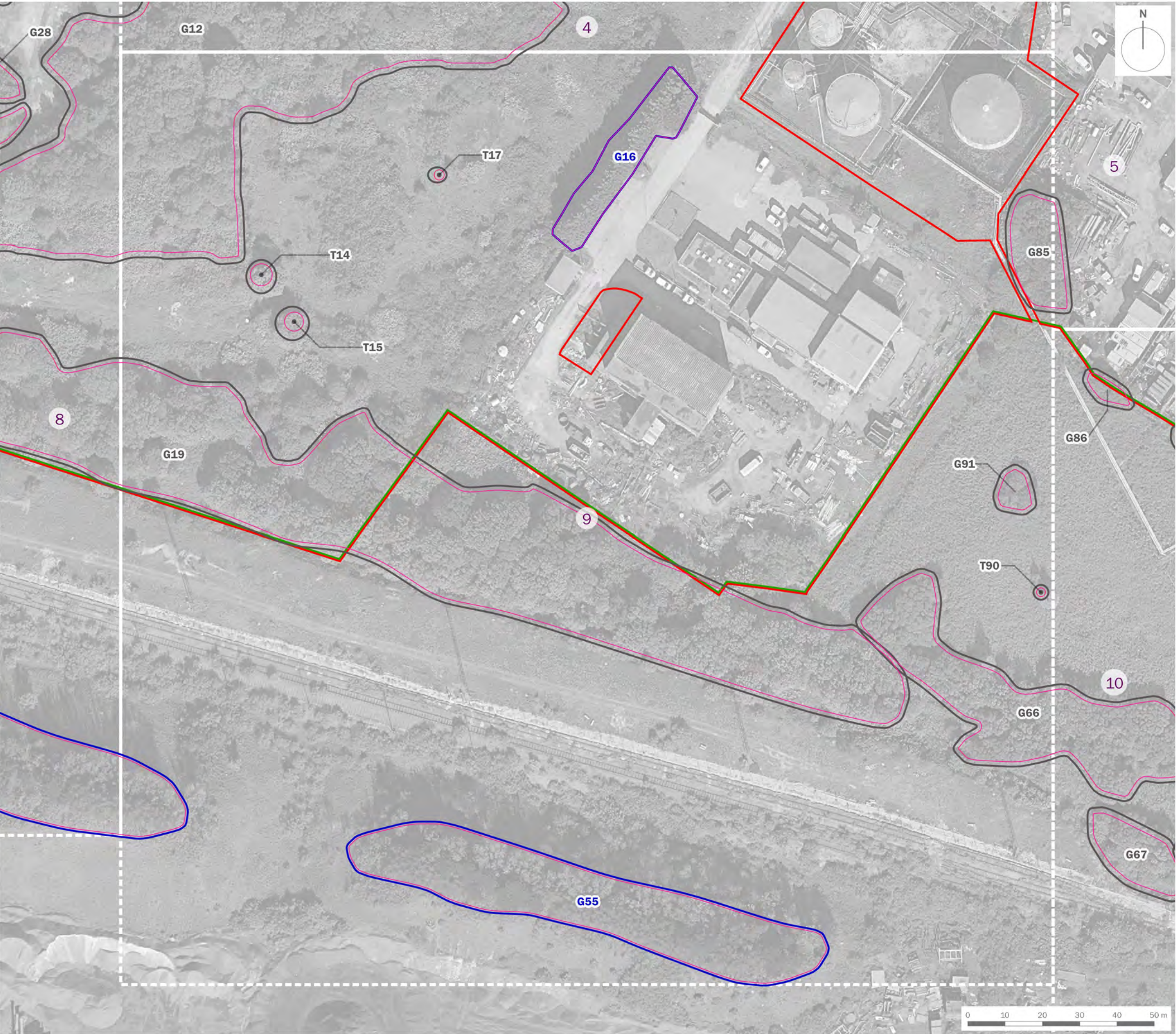
Category C: Trees of low quality and value

Category U: Trees of poor quality and value



|                |                                                                      |          |     |
|----------------|----------------------------------------------------------------------|----------|-----|
| client         | LanzaTech UK Limited                                                 |          |     |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |
| drawing title  | Tree Constraints Plan (Sheet 8 of 10)                                |          |     |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |
| drawing number | edp7470_d001e                                                        | checked  | DGa |
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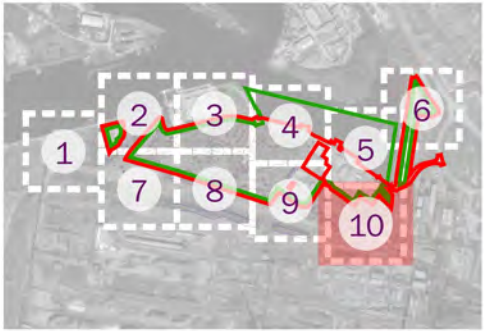
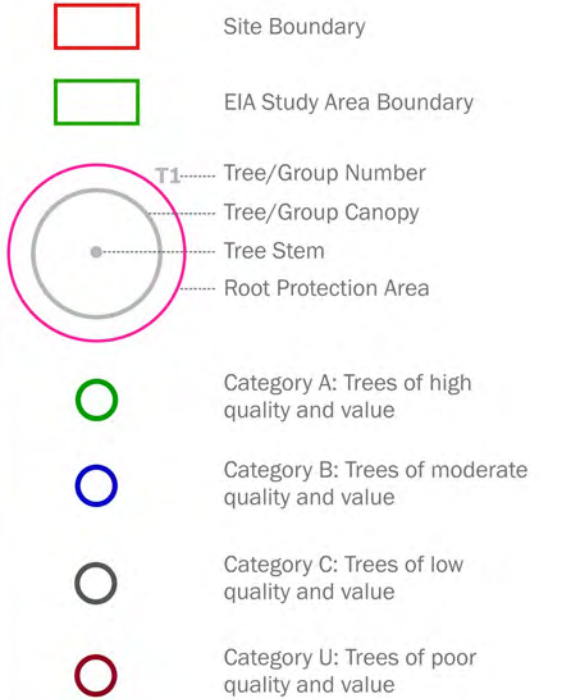
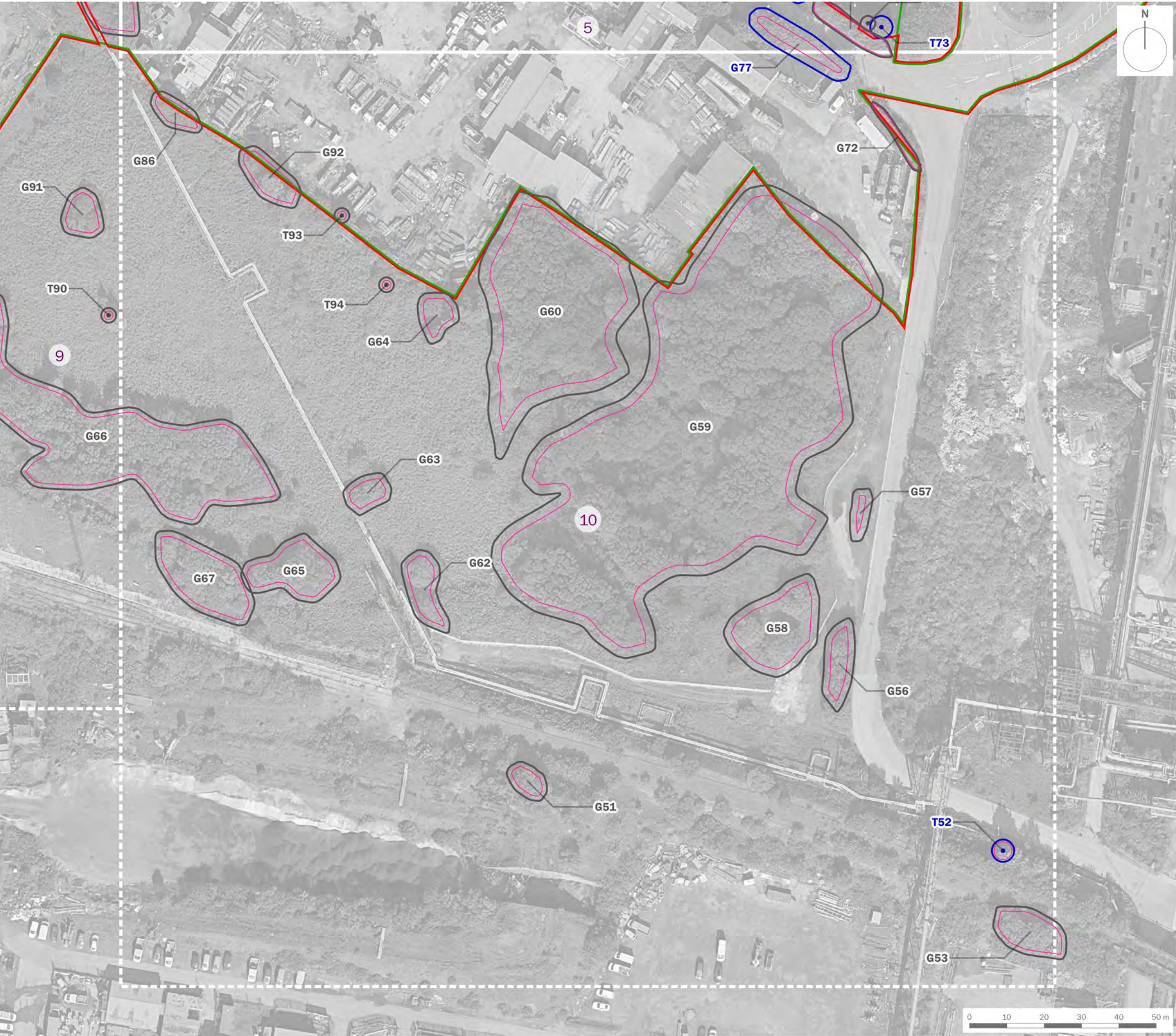




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|----------------|----------------------------------------------------------------------|----------|-----|
| client         | LanzaTech UK Limited                                                 |          |     |
| project title  | Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility |          |     |
| drawing title  | Tree Constraints Plan (Sheet 9 of 10)                                |          |     |
| date           | 19 OCTOBER 2023                                                      | drawn by | DJo |
| drawing number | edp7470_d001e                                                        | checked  | DGa |
| scale          | 1:1,000 @ A3                                                         | QA       | VMS |



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client

LanzaTech UK Limited

project title

Project Dragon – Sustainable Aviation Fuel (SAF) Production Facility

drawing title

Tree Constraints Plan (Sheet 10 of 10)

|                |                 |          |     |
|----------------|-----------------|----------|-----|
| date           | 19 OCTOBER 2023 | drawn by | DJo |
| drawing number | edp7470_d001e   | checked  | DGa |
| scale          | 1:1,000 @ A3    | QA       | VMS |

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**Annex EDP 2**  
**Schedule EDP 1**  
**Tree Survey Key and Schedule**

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequential Reference Number</b>         | <p>T - Individual specimen;</p> <p>G - Group of trees that form cohesive arboricultural features either aerodynamically, visually or culturally;</p> <p>H - Linear group of specimens that form a hedge or boundary; and</p> <p>W - A larger group or area of trees that should be regarded as a single woodland unit.</p>                                                                                                                                                                   |
| <b>Species</b>                             | Scientific names and common English names provide, the latter are used wherever possible for simplicity.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Height</b>                              | An approximation of height (in metres) is provided for the highest point of the tree.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Stem Diameter</b>                       | This is the measurement of stem diameter in millimetres taken in accordance with Annex C of BS 5837:2012 (# is used if estimated).                                                                                                                                                                                                                                                                                                                                                           |
| <b>Branch Spread</b>                       | This is taken at four cardinal points, with a stated value in metres to enable an accurate representation of the crown, as shown on <b>Plan EDP 1</b> .                                                                                                                                                                                                                                                                                                                                      |
| <b>Canopy Clearance Above Ground Level</b> | An approximation of height (in metres) of crown clearance above adjacent ground level.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Life Stage</b>                          | <p>There are five classes to which trees are assigned:</p> <p>Young;</p> <p>Early Mature;</p> <p>Mature;</p> <p>Over Mature; and</p> <p>Veteran.</p>                                                                                                                                                                                                                                                                                                                                         |
| <b>Physiological Condition</b>             | <p>An indication of the tree's physiological condition is represented and classed as good, fair, poor or dead, this is informed by the following:</p> <p>Canopy density: It should be taken that, unless otherwise stated with each individual entry, the canopy density of the trees is typical of the species; and</p> <p>Leaf size and colouration: It should be taken that, unless otherwise stated with each individual entry, leaf size and colouration is typical of the species.</p> |
| <b>Structural Condition</b>                | <p>An indication of the tree's structural condition is represented and classed as good, fair, poor or dead.</p> <p>This is informed by “the presence of any decay and physical defect<sup>1</sup>”.</p>                                                                                                                                                                                                                                                                                      |

<sup>1</sup> BS 5837:2012 Section 4.4.2.5



|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Comments/Notes</b>                                   | Observations on structural or physiological condition, historic pruning, any Site-specific constraints etc. noted at the time the survey is undertaken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Recommendations<br/>(and Tree Work<br/>Priority)</b> | <p>These are made on the basis of optimising the life expectancy of site trees, given their current situation and that which may result from the development proposals. The survey process pays particular attention to implications for life and/or property; defects recorded under the structural condition have the necessary mitigation measures proposed within this section of the schedule.</p> <p>Priority codes from 1 to 3 have been given for trees requiring work. The definition of the codes used is as follows:</p> <p>Priority 1: Work that should be undertaken urgently due to the identification of a potential hazard;</p> <p>Priority 2: Work that should be undertaken prior to any demolition or construction works commencing on Site; and</p> <p>Priority 3: Work that should be undertaken following the completion of the development.</p> |
| <b>Estimated Remaining<br/>Contribution</b>             | <p>The definitions of the terms used are as follows and describe the estimated length of time (in years) over which the tree can be expected to make a safe contribution to local amenity:</p> <p>Less than 10;</p> <p>10+;</p> <p>20+; and</p> <p>40+.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Category Grading</b>                                 | Trees have been assigned either U or category grading A to C in accordance with the cascade chart given in BS 5837:2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Root Protection<br/>Radius</b>                       | Measurement (in m) based on the stem diameter and calculated in accordance with BS 5837:2012.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                        |                                 |                   |                                                         |
|------------------------|---------------------------------|-------------------|---------------------------------------------------------|
| <b>Client:</b>         | LanzaTech UK Limited            | <b>Site:</b>      | Land at Crown Wharf, Port Talbot Docks (Project Dragon) |
| <b>Date of Survey:</b> | 14/07/22, 04/10/22 and 03/07/23 | <b>Consultant</b> | David Garrick                                           |
| <b>Tagged</b>          | N/A                             | <b>Weather</b>    | Clear (14/07/22), Overcast (04/10/22 and 03/07/23)      |

| Sequential Reference No. | Species                                                                                             | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage   | Physiological Condition | Structural Condition | Comments / Notes                                | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|-----------------------------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|-------------------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                                     |            |                    | North             | East | South | West |                      |              |                         |                      |                                                 |                                          |                  |                            |
| T1                       | Goat willow (Salix caprea)                                                                          | 4          | # 6x50             | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.47                       |
| T2                       | Goat willow (Salix caprea)                                                                          | 4          | # 6x60             | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.76                       |
| T3                       | Goat willow (Salix caprea)                                                                          | 4          | # 6x60             | 2                 | 3    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.76                       |
| G4                       | Goat willow (Salix caprea)                                                                          | 6          | # 70               | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.88                       |
| G5                       | Goat willow (Salix caprea)                                                                          | 5          | # 60               | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.61                       |
| G6                       | Goat willow (Salix caprea)                                                                          | 5          | # 60               | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.61                       |
| G7                       | Goat willow (Salix caprea)                                                                          | 4          | # 50               | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.34                       |
| G8                       | Goat willow (Salix caprea)                                                                          | 4          | # 50               | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.34                       |
| T9                       | Goat willow (Salix caprea)                                                                          | 4          | # 6x50             | 2                 | 2    | 3     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.47                       |
| T10                      | Goat willow (Salix caprea)                                                                          | 4          | # 6x50             | 3                 | 2    | 3     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.47                       |
| T11                      | Goat willow (Salix caprea)                                                                          | 4          | # 6x50             | 3                 | 2    | 3     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C2               | 1.47                       |
| G12                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula) | 6          | # 110              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Fair                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.32                       |
| G13                      | Silver birch (Betula pendula)                                                                       | 8          | # 150              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.8                        |
| T14                      | Goat willow (Salix caprea)                                                                          | 6          | # 6x100            | 4                 | 4    | 5     | 4    | N/A                  | Early Mature | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1,2             | 2.94                       |
| T15                      | Goat willow (Salix caprea)                                                                          | 7          | # 7x80             | 4                 | 4    | 5     | 5    | N/A                  | Early Mature | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1,2             | 2.54                       |
| G16                      | Leyland cypress (Cupressocyparis leylandii)                                                         | 12         | # 250              | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Good                    | Fair                 | Condition considered typical of species and age | 20+                                      | B2               | 3                          |
| T17                      | Common hawthorn (Crataegus monogyna)                                                                | 3          | # 80 80            | 2                 | 2    | 2     | 3    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1               | 1.36                       |
| G18                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)                                  | 7          | # 130              | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.56                       |
| G19                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)                                  | 6          | # 150              | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.8                        |
| T20                      | Sycamore (Acer pseudoplatanus)                                                                      | 6          | # 120              | 2                 | 2    | 2     | 2    | 1                    | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1               | 1.44                       |
| T21                      | Common hawthorn (Crataegus monogyna)                                                                | 3          | # 100              | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1               | 1.2                        |

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| Sequential Reference No. | Species                                                                                              | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage   | Physiological Condition | Structural Condition | Comments / Notes                                | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|------------------------------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|-------------------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                                      |            |                    | North             | East | South | West |                      |              |                         |                      |                                                 |                                          |                  |                            |
| G22                      | Goat willow (Salix caprea)                                                                           | 7          | # 80               | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 0.96                       |
| T23                      | Goat willow (Salix caprea)                                                                           | 3          | # 6x70             | 3                 | 3    | 3     | 3    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1               | 2.06                       |
| G24                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)                                   | 6          | # 70               | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 0.84                       |
| G25                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Sycamore (Acer pseudoplatanus) | 6          | # 120              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.44                       |
| G26                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Sycamore (Acer pseudoplatanus) | 6          | # 120              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.44                       |
| G27                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula)  | 6          | # 140              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.68                       |
| G28                      | Goat willow (Salix caprea)                                                                           | 4          | # 50               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.34                       |
| T29                      | Goat willow (Salix caprea)                                                                           | 3          | # 6x50             | 2                 | 3    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | No Significant Faults Observed                  | 10+                                      | C1               | 1.47                       |
| G30                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula)  | 7          | # 130              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.56                       |
| G31                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula)  | 7          | # 130              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.56                       |
| G32                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula)  | 7          | # 130              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.56                       |
| G33                      | Common hawthorn (Crataegus monogyna)<br>Goat willow (Salix caprea)<br>Silver birch (Betula pendula)  | 7          | # 120              | 3                 | 3    | 3     | 3    | N/A                  | Young        | Good                    | Fair                 | Condition considered typical of species and age | 10+                                      | C2               | 1.44                       |
| T34                      | Common ash (Fraxinus excelsior)                                                                      | 7          | # 90 90            | 2                 | 2    | 2     | 2    | 1                    | Young        | Poor                    | Poor                 | Ash Dieback SuspectedAdB                        | <10                                      | U                | 1.53                       |

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| Sequential Reference No. | Species                                                                             | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage   | Physiological Condition | Structural Condition | Comments / Notes                      | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|-------------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|---------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                     |            |                    | North             | East | South | West |                      |              |                         |                      |                                       |                                          |                  |                            |
| G35                      | Goat willow (Salix caprea)<br>Silver birch (Betula pendula)                         | 6          | # 50               | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Off-site tree, all readings estimated | 10+                                      | C2               | 0.6                        |
| T36                      | Silver birch (Betula pendula)                                                       | 6          | # 110              | 2                 | 2    | 2     | 2    | N/A                  | Young        | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.32                       |
| T37                      | Goat willow (Salix caprea)                                                          | 8          | # 6x90             | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Good                 | No Significant Faults Observed        | 10+                                      | C1               | 2.65                       |
| T38                      | Silver birch (Betula pendula)                                                       | 5          | # 60 60            | 2                 | 2    | 2     | 2    | N/A                  | Young        | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.02                       |
| T39                      | Goat willow (Salix caprea)                                                          | 7          | # 6x50             | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.47                       |
| T40                      | Goat willow (Salix caprea)                                                          | 7          | # 50               | 3                 | 3    | 2     | 3    | N/A                  | Young        | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 0.6                        |
| G41                      | Goat willow (Salix caprea)<br>Buddleja sp. (Buddleja sp.)                           | 5          | # 50               | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                  | 10+                                      | C2               | 0.6                        |
| T42                      | Sycamore (Acer pseudoplatanus)                                                      | 8          | # 6x90             | 4                 | 4    | 3     | 4    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 2.65                       |
| T43                      | Goat willow (Salix caprea)                                                          | 8          | # 6x90             | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 2.65                       |
| T44                      | Alder sp. (Alnus sp.)                                                               | 8          | # 260              | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 20+                                      | B1               | 3.12                       |
| T45                      | Alder sp. (Alnus sp.)                                                               | 8          | # 270              | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 20+                                      | B1               | 3.24                       |
| T46                      | Common holly (Ilex aquifolium)                                                      | 6          | # 130              | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.56                       |
| T47                      | Silver birch (Betula pendula)                                                       | 5          | # 100              | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.2                        |
| T48                      | Common hawthorn (Crataegus monogyna)                                                | 4          | # 120              | 2                 | 2    | 2     | 2    | 1                    | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.44                       |
| T49                      | Common ash (Fraxinus excelsior)                                                     | 5          | # 150              | 4                 | 3    | 4     | 4    | 1                    | Early Mature | Good                    | Good                 | Natural regeneration                  | 10+                                      | C1               | 1.8                        |
| T50                      | Sycamore (Acer pseudoplatanus)                                                      | 14         | # 650              | 5                 | 5    | 5     | 5    | 1                    | Mature       | Good                    | Good                 | Natural regeneration                  | 20+                                      | B1               | 7.8                        |
| G51                      | Goat willow (Salix caprea)                                                          | 5          | # 60               | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                  | 10+                                      | C2               | 0.72                       |
| T52                      | Sycamore (Acer pseudoplatanus)                                                      | 8          | # 200              | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Good                 | Natural regeneration                  | 20+                                      | B1               | 2.4                        |
| G53                      | Goat willow (Salix caprea)                                                          | 5          | # 60               | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                  | 10+                                      | C2               | 0.72                       |
| G54                      | Goat willow (Salix caprea)<br>Silver birch (Betula pendula)<br>Pine sp. (Pinus sp.) | 8          | # 200              | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | No Significant Faults Observed        | 20+                                      | B2               | 2.4                        |

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|--------------------------|-------------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|-----------------------------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                     |            |                    | North             | East | South | West |                      |              |                         |                      |                                                           |                                          |                  |                            |
| G55                      | Goat willow (Salix caprea)<br>Silver birch (Betula pendula)<br>Pine sp. (Pinus sp.) | 8          | # 200              | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | Off-site tree, all readings estimatedNatural regeneration | 20+                                      | B2               | 2.4                        |
| G56                      | Goat willow (Salix caprea)                                                          | 7          | # 100              | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | Off-site tree, all readings estimatedNatural regeneration | 10+                                      | C2               | 1.2                        |
| G57                      | Goat willow (Salix caprea)                                                          | 7          | # 100              | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | Off-site tree, all readings estimatedNatural regeneration | 10+                                      | C2               | 1.2                        |
| G58                      | Goat willow (Salix caprea)                                                          | 7          | # 80               | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | Off-site tree, all readings estimatedNatural regeneration | 10+                                      | C2               | 0.96                       |
| G59                      | Goat willow (Salix caprea)                                                          | 10         | # 110              | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.32                       |
| G60                      | Goat willow (Salix caprea)                                                          | 10         | # 80               | 4                 | 4    | 4     | 4    | N/A                  | Early Mature | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.96                       |
| T61                      | Unknown Deciduous                                                                   | 4          | # 100              | 1                 | 1    | 1     | 1    | N/A                  | Dead         | Dead                    | Dead                 | Dead tree / trees                                         | <10                                      | U                | 1.2                        |
| G62                      | Willow sp. (Salix sp.)                                                              | 4          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.18                       |
| G63                      | Willow sp. (Salix sp.)                                                              | 4          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.18                       |
| G64                      | Willow sp. (Salix sp.)                                                              | 4          | 40                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Access to inspect base - Not possibleNatural regeneration | 10+                                      | C2               | 0.48                       |
| G65                      | Willow sp. (Salix sp.)                                                              | 4          | 7x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.27                       |
| G66                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                               | 4          | 6x60               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.76                       |
| G67                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                               | 4          | 40                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.48                       |
| G68                      | Willow sp. (Salix sp.)                                                              | 5          | 6x50               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.47                       |
| T69                      | Willow sp. (Salix sp.)                                                              | 5          | 70                 | 2                 | 2    | 2     | 2    | 2                    | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| G70                      | Willow sp. (Salix sp.)                                                              | 5          | 6x50               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.47                       |
| G71                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                               | 4          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.18                       |
| G72                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                               | 4          | 50                 | 1                 | 1    | 1     | 1    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.6                        |

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| Sequential Reference No. | Species                                               | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage   | Physiological Condition | Structural Condition | Comments / Notes                                          | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|-------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|-----------------------------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                       |            |                    | North             | East | South | West |                      |              |                         |                      |                                                           |                                          |                  |                            |
| T73                      | Alder sp. (Alnus sp.)                                 | 8          | 250                | 3                 | 3    | 3     | 3    | 2                    | Early Mature | Good                    | Fair                 | Access to inspect base - Not possibleNatural regeneration | 20+                                      | B1               | 3                          |
| T74                      | Sycamore (Acer pseudoplatanus)                        | 6          | 150                | 2                 | 2    | 2     | 2    | 2                    | Early Mature | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.8                        |
| G75                      | Alder sp. (Alnus sp.)                                 | 8          | 200                | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Good                    | Fair                 | Natural regeneration                                      | 20+                                      | B2               | 2.4                        |
| G76                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.) | 4          | 50                 | 1                 | 1    | 1     | 1    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.6                        |
| G77                      | Willow sp. (Salix sp.)                                | 8          | 150                | 4                 | 4    | 4     | 4    | 2                    | Early Mature | Fair                    | Fair                 | Arboricultural work - HistoricNatural regeneration        | 20+                                      | B2               | 1.8                        |
| G78                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.) | 6          | 100                | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Arboricultural work - HistoricNatural regeneration        | 10+                                      | C2               | 1.2                        |
| T79                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | 2                    | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T80                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T81                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T82                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T83                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T84                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| G85                      | Willow sp. (Salix sp.)                                | 7          | 60                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Access to inspect base - Not possibleNatural regeneration | 10+                                      | C2               | 1.61                       |
| G86                      | Birch sp. (Betula sp.)                                | 10         | 150                | 3                 | 3    | 3     | 3    | 1                    | Early Mature | Fair                    | Fair                 | Access to inspect base - Not possibleNatural regeneration | 10+                                      | C2               | 1.8                        |
| G87                      | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.) | 5          | 50                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.6                        |
| T88                      | Willow sp. (Salix sp.)                                | 5          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T89                      | Willow sp. (Salix sp.)                                | 3          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T90                      | Willow sp. (Salix sp.)                                | 3          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| G91                      | Willow sp. (Salix sp.)                                | 7          | 60                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.61                       |
| G92                      | Willow sp. (Salix sp.)                                | 7          | 60                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.61                       |
| T93                      | Willow sp. (Salix sp.)                                | 3          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T94                      | Willow sp. (Salix sp.)                                | 3          | 6x40               | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.18                       |
| T95                      | Sycamore (Acer pseudoplatanus)                        | 4          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| T96                      | Sycamore (Acer pseudoplatanus)                        | 4          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| T97                      | Willow sp. (Salix sp.)                                | 4          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| T98                      | Willow sp. (Salix sp.)                                | 4          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |

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**Category Grading** -Trees have been assigned 'U' or Category Grading 'A' to 'C' in accordance with the Cascade Chart given in BS5837:2012.

**Root Protection Radius**—The root protection radius from the stem of the tree calculated in line with the recommendations set out in BS5837:2012.

| Sequential Reference No. | Species                                                                           | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage   | Physiological Condition | Structural Condition | Comments / Notes                                          | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|-----------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|--------------|-------------------------|----------------------|-----------------------------------------------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                   |            |                    | North             | East | South | West |                      |              |                         |                      |                                                           |                                          |                  |                            |
| G99                      | Willow sp. (Salix sp.)                                                            | 5          | 60                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.72                       |
| G100                     | Willow sp. (Salix sp.)<br>Sycamore (Acer pseudoplatanus)                          | 5          | 60                 | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.72                       |
| T101                     | Sycamore (Acer pseudoplatanus)                                                    | 5          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| T102                     | Sycamore (Acer pseudoplatanus)                                                    | 5          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| G103                     | Willow sp. (Salix sp.)<br>Sycamore (Acer pseudoplatanus)<br>Alder sp. (Alnus sp.) | 7          | 200                | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Access to inspect base - Not possibleNatural regeneration | 20+                                      | B2               | 2.4                        |
| G104                     | Alder sp. (Alnus sp.)                                                             | 6          | 150                | 2                 | 2    | 2     | 2    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.8                        |
| G105                     | Alder sp. (Alnus sp.)<br>Birch sp. (Betula sp.)<br>Willow sp. (Salix sp.)         | 9          | 120                | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.44                       |
| T106                     | Hawthorn sp. (Crataegus sp.)                                                      | 4          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| G107                     | Willow sp. (Salix sp.)                                                            | 4          | 50                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 0.6                        |
| T108                     | Willow sp. (Salix sp.)                                                            | 5          | 110                | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.32                       |
| T109                     | Hawthorn sp. (Crataegus sp.)                                                      | 5          | 100                | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.2                        |
| T110                     | Willow sp. (Salix sp.)                                                            | 5          | 6x50               | 3                 | 3    | 3     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.47                       |
| T111                     | Willow sp. (Salix sp.)                                                            | 5          | 6x50               | 3                 | 3    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 1.47                       |
| G112                     | Willow sp. (Salix sp.)                                                            | 8          | 250                | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 3                          |
| T113                     | Willow sp. (Salix sp.)                                                            | 12         | 7x120              | 7                 | 6    | 6     | 6    | 1                    | Mature       | Poor                    | Fair                 | Dieback throughout crown                                  | <10                                      | U                | 3.81                       |
| T114                     | English oak (Quercus robur)                                                       | 4          | 70                 | 1                 | 1    | 1     | 1    | N/A                  | Young        | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| T115                     | English oak (Quercus robur)                                                       | 4          | 70                 | 1                 | 1    | 1     | 1    | N/A                  | Young        | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 0.84                       |
| G116                     | Willow sp. (Salix sp.)<br>Oak sp. (Quercus sp.)                                   | 8          | 250                | 3                 | 3    | 3     | 3    | N/A                  | Early Mature | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 3                          |
| T117                     | Sycamore (Acer pseudoplatanus)                                                    | 8          | 150 150<br>130     | 4                 | 4    | 4     | 4    | N/A                  | Young        | Good                    | Fair                 | Arboricultural work - RecentNatural regeneration          | 20+                                      | B1               | 2.99                       |
| T118                     | Sycamore (Acer pseudoplatanus)                                                    | 8          | 150 150<br>130 130 | 4                 | 4    | 4     | 4    | N/A                  | Young        | Good                    | Fair                 | Natural regeneration                                      | 20+                                      | B1               | 3.37                       |
| T119                     | Willow sp. (Salix sp.)                                                            | 7          | 6x70               | 4                 | 4    | 4     | 4    | N/A                  | Young        | Good                    | Fair                 | Natural regeneration                                      | 10+                                      | C1               | 2.06                       |
| G120                     | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                             | 5          | 50                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.34                       |
| G121                     | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                             | 5          | 50                 | 2                 | 2    | 2     | 2    | N/A                  | Young        | Fair                    | Fair                 | Natural regeneration                                      | 10+                                      | C2               | 1.34                       |

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| Sequential Reference No. | Species                                                                        | Height (m) | Stem Diameter (mm) | Branch Spread (m) |      |       |      | Canopy Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments / Notes     | Estimated Remaining Contribution (Years) | Category Grading | Root Protection Radius (m) |
|--------------------------|--------------------------------------------------------------------------------|------------|--------------------|-------------------|------|-------|------|----------------------|------------|-------------------------|----------------------|----------------------|------------------------------------------|------------------|----------------------------|
|                          |                                                                                |            |                    | North             | East | South | West |                      |            |                         |                      |                      |                                          |                  |                            |
| G122                     | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)                          | 5          | 50                 | 2                 | 2    | 2     | 2    | N/A                  | Young      | Fair                    | Fair                 | Natural regeneration | 10+                                      | C2               | 1.34                       |
| T123                     | Hawthorn sp. (Crataegus sp.)                                                   | 3          | 70                 | 2                 | 2    | 2     | 2    | N/A                  | Young      | Fair                    | Fair                 | Natural regeneration | 10+                                      | C1               | 0.84                       |
| G124                     | Willow sp. (Salix sp.)<br>Buddleja sp. (Buddleja sp.)<br>Sumach sp. (Rhus sp.) | 7          | 150                | 2                 | 2    | 2     | 2    | N/A                  | Young      | Fair                    | Fair                 | Natural regeneration | 10+                                      | C2               | 1.8                        |
| T125                     | Willow sp. (Salix sp.)                                                         | 6          | 6x60               | 2                 | 2    | 2     | 2    | N/A                  | Young      | 0                       | Good                 | Natural regeneration | 10+                                      | C1               | 1.76                       |
| T126                     | Pine sp. (Pinus sp.)                                                           | 4          | 70                 | 1                 | 2    | 2     | 1    | N/A                  | Young      | Good                    | Fair                 | Natural regeneration | 10+                                      | C1               | 0.84                       |

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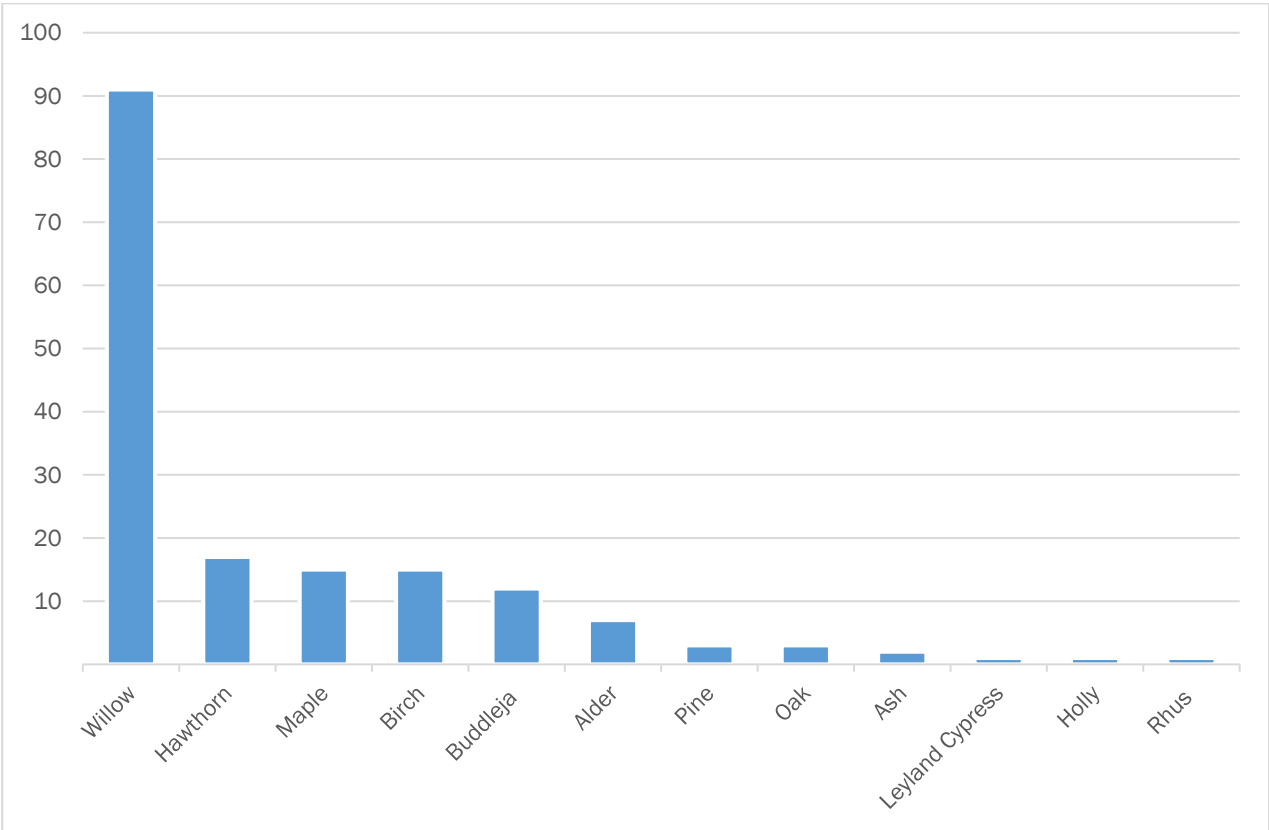
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**Annex EDP 3**  
**Illustrative Summary of Survey Data**



**Figure EDP 3.1:** Species diversity.

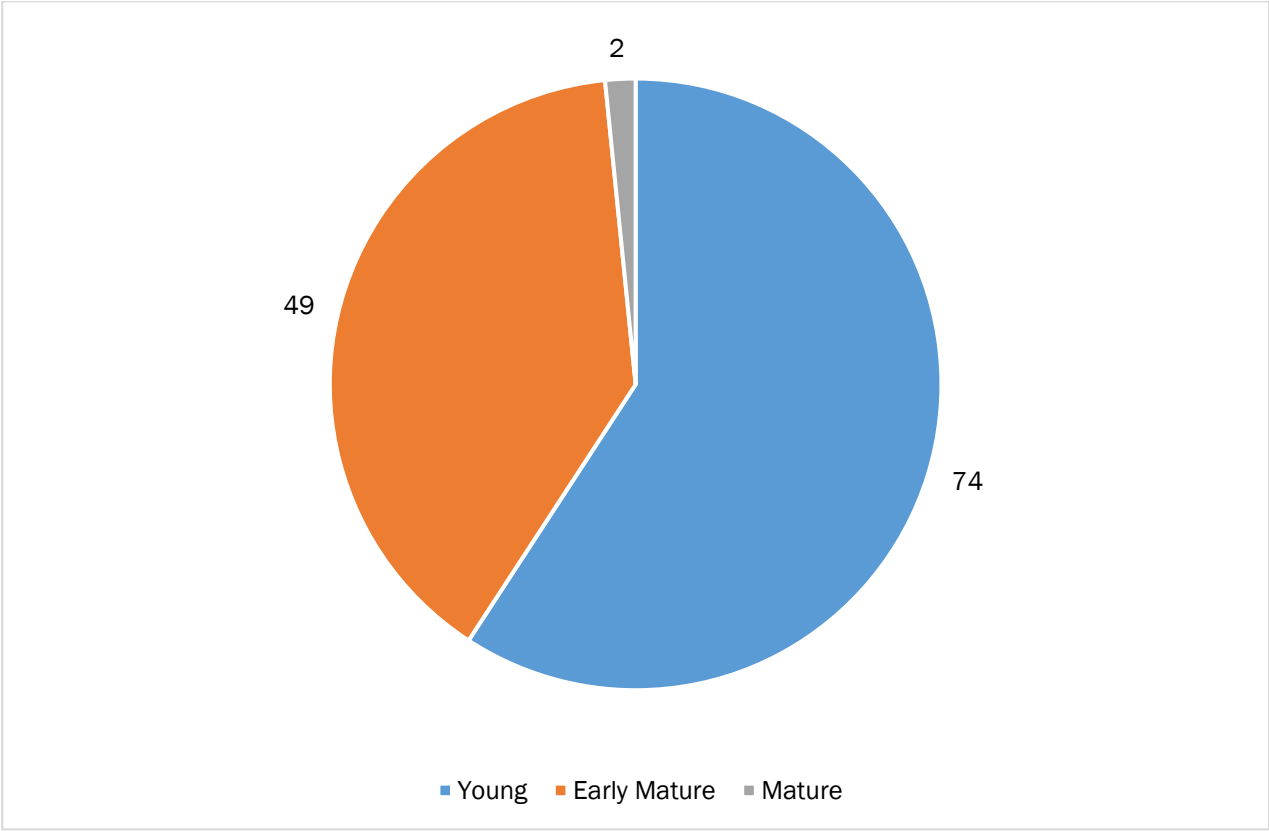


Figure EDP 3.2: Age distribution of live trees.

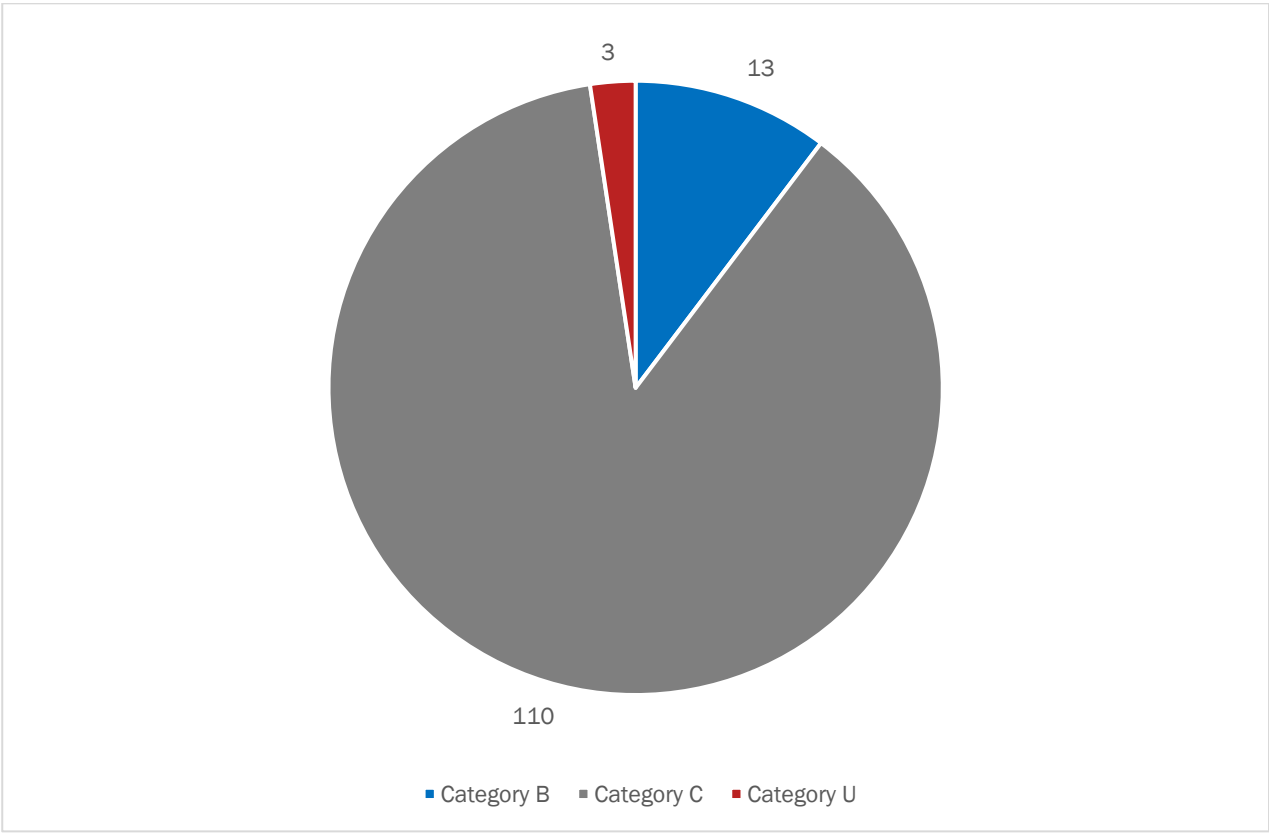


Figure EDP 3.3: Category grading.

## **Annex EDP 4 Protected Species**

### **Bats**

- A4.1 All species of British bat comprise European Protected Species (EPS) and are afforded it protection under the *Conservation of Habitats and Species Regulations* 2017 (as amended), making it an offence to:
- Deliberately capture, injure or kill a wild individual of an EPS;
  - Deliberately disturb wild animals of an EPS wherever they are occurring, in particular any disturbance which is likely to impair their ability to survive, to breed or reproduce, to affect significantly the local distribution or abundance of the species to which they belong, or in the case of hibernating or migratory species, to hibernate or migrate; and/or
  - Damage or destroy a breeding site or resting place of a wild individual of an EPS.
- A4.2 Additional protection for bats is also afforded under the *Wildlife and Countryside Act* 1981 (as amended), making it an offence to intentionally or recklessly disturb bats whilst they are occupying a structure or place that is used for shelter or protection, or to obstruct access to this structure or place. As bats tend to re-use the same roosts, legal opinion is that roosts are protected whether or not bats are currently occupying these resting places/places of shelter.
- A4.3 Prior to undertaking any tree works or tree removal further advice should be sought from a suitably qualified ecologist.

### **Nesting Birds**

- A4.4 All wild birds, their nests and eggs are protected under Section 1 of the *Wildlife and Countryside Act* 1981 (as amended). This makes it an offence to:
- Intentionally kill, injure or take any wild bird;
  - Take, damage or destroy the nest of any wild bird while it is in use or being built;
  - Take, damage or destroy the egg of any wild bird; or
  - To have in one's possession or control any wild bird (dead or alive), or egg or any part of a wild bird or egg.



- A4.5 In addition, further protection is afforded to those wild bird species listed on Schedule 1 of the Act, prohibiting any intentional or reckless disturbance to these species while it is nest building, or at a nest containing eggs or young, or to recklessly disturb the dependent young of such a bird.

## **Annex EDP 5**

### **Consideration of Trees within the Design Process**

- A5.1 Construction activities pose a threat to the successful retention of trees if handled inappropriately. It is important to consider the relationship between development and trees during the design process.

#### **Below-ground Constraints – Root Protection Area**

- A5.2 The below-ground constraints are defined as the likely spread and distribution of the root system and are depicted on **Plan EDP 1** with pink outlined areas, representing the RPA around each surveyed item.
- A5.3 The RPA is defined as the minimum area (in m<sup>2</sup>) around the tree that is deemed to contain sufficient roots and rooting volume to maintain the tree's viability.
- A5.4 Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, the shape of the RPA may be modified, but not reduced in area, and its shape should reflect a soundly based assessment of the likely root distribution.
- A5.5 Any deviation in the RPA from the original circular plot should take account of the following factors whilst still providing adequate protection for the root system:
- The morphology and disposition of the roots, when known to be influenced by past or existing site conditions (e.g., the presence of roads, structures and underground services);
  - Topography and drainage;
  - The soil type and structure; and
  - The likely tolerance of the tree to root disturbance or damage, based on factors such as species, age and condition and presence of other trees.

#### **Above-ground Constraints – Proximity of Trees to Structures**

- A5.6 The above-ground parts of a tree whilst being more visible and easily protected are a potential constraint to development and consideration should be given to the current and ultimate height and spread of the trees.



- A5.7 Where the current and/or ultimate height of a category B or C tree will cause an unreasonable obstruction to the proposed development, this must be considered as a constraint. This is usually considered in terms of issues relating to shade and light.
- A5.8 The above-ground constraints can be a combination of factors such as:
- Shading of buildings and open space – a detailed daylight study may be necessary if any proposed buildings are in the immediate vicinity of retained trees;
  - Direct damage to structures;
  - Future pressure for removal;
  - Seasonal nuisance (e.g. leaf fall blocking gutters, fruit fall creating slippery patches and honey dew dripping on vehicles and surfaces);
  - Whether the tree is deciduous or evergreen; and
  - Density of foliage.