Selection of $^{14}$C material from the site of Hedensbyn, L1936:1682, Skellefteå kommun, Skellefteå socken, Västerbotten

Ivanka Hristova
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Sample information
Analysis type: Selection of $^{14}$C material (charcoal/wood).
Number of samples: 4 sample.

Introduction
Material for $^{14}$C dating has been selected from four samples from the site Hedensbyn, L1936:1682. The samples come from a posthole, a wooden construction under the topsoil, charcoals under the topsoil, and charcoal layer under a stone packing.
The aim of the analyses is to obtain material suitable for $^{14}$C dating.
The samples were provided by Susanne Sundström, Skellefteå museum.

Materials and Methods
Two of the samples comprised of several charcoal pieces and the other two of uncharred wood.
Before the analysis the samples were stored in a drying room (+30°) until the moisture has disappeared. A suitable charcoal/wood piece has been selected with the help of stereo microscope and the identification was conducted under microscope with reflected light. The results from the analyses are presented in Table 1.
The species identification was done using reference literature (Mossberg and Stenberg 2018, Schweingruber 1978; Schweingruber 1990, Gale and Cutler 2000) as well as the laboratory reference collections. The names of the identified plants are given according to the Nordens flora (Mossberg and Stenberg 2018). Swedish names of the identified plants are included in Table 1.
The analysis of the samples was performed by Ivanka Hristova.

Results
The results from the analyses are presented in Table 1.

Sample 23_0046_0001/Anl. 4/KP 3
The sample consisted of several charcoal fragments, all from coniferous wood. One of them has been selected for $^{14}$C dating, identified as pine ($Pinus$ sp.), and weighed.

Sample 23_0046_0002/Anl. 3/F38
The sample consisted of several pieces of uncharred wood, all from coniferous wood. One of them has been selected for $^{14}$C dating, identified as pine ($Pinus$ sp.), and weighed.
Sample 23_0046_0003/Anl. 6
The sample consisted of several pieces of uncharred wood, all from coniferous wood. One of them has been selected for $^{14}$C dating, identified as pine ($Pinus$ sp.), and weighed.

Sample 23_0046_0004/Anl. 7/KP 4
The sample consisted of several charcoal fragments, representing both coniferous and deciduous wood. A fragment from the deciduous wood has been selected for $^{14}$C dating, identified as poplar ($Populus$ sp.), and weighed.

Discussion and Conclusions
All analysed four samples from the site of site Hedensbyn, L1936:1682 contained suitable for $^{14}$C material. No further analyses have been conducted on the provided samples. Except for sample number 23_0046_0004/Anl. 7/KP 4, the wood from all the other samples could represent one and the same piece of wood that has been fragmented due to mechanical and/or taphonomical factors. In order to answer this question identification of all fragments needs to be performed.

References

Figures and tables
Table 1. Botanical material selected for $^{14}$C dating.

<table>
<thead>
<tr>
<th>MAL nummer</th>
<th>Anläggning</th>
<th>Prov nr</th>
<th>Material</th>
<th>Vikt</th>
<th>Kommentar</th>
</tr>
</thead>
<tbody>
<tr>
<td>23_0046_0001</td>
<td>4</td>
<td>Kp 3</td>
<td>Pinus (tall)</td>
<td>0,424 g</td>
<td>1 fragment, trekol</td>
</tr>
<tr>
<td>23_0046_0002</td>
<td>3</td>
<td>F 38</td>
<td>Pinus (tall)</td>
<td>0,244 g</td>
<td>1 fragment, oförkolnad ved</td>
</tr>
<tr>
<td>23_0046_0003</td>
<td>6</td>
<td></td>
<td>Pinus (tall)</td>
<td>1,24 g</td>
<td>1 fragment, oförkolnad ved</td>
</tr>
<tr>
<td>23_0046_0004</td>
<td>7</td>
<td>Kp 4</td>
<td>Populus (Poppel)</td>
<td>0,0394 g</td>
<td>1 fragment, trekol</td>
</tr>
</tbody>
</table>