

Necton Parish Council Boreas Representation 21 January 2020

Necton Parish Council are not satisfied with the new comments on the DAS. They do not go far enough in our opinion. There is no way to gain a proper understanding of the actual impact of this project and our needs from a simple drawing. Therefore, we have made a model to show you that the use of trees planted on an earth bank or bund would be a more effective method of screening the Boreas converter halls than the trees on their own as outlined in the Boreas DCO. We have included both the Boreas and Vanguard converter halls because this option is what can be seen in the Vattenfall photo-montages we used for the scale and shape of the main buildings.

We used the Ordinance Survey contour data for the area (show it) and put together this three-dimensional model in front of you. In it you will see the A47, the stream, Necton Wood and the current Dudgeon AC buildings with their associated National Grid infrastructure. This is a model of the Boreas and Vanguard substations and the DCO places it here (place on model) behind Necton Wood and also beside the Dudgeon substation here. However, Ivy Todd and Necton will not be screened by the wood because they lie in the opposite direction (place flags on model). The converter halls are DC rather than the AC of the Dudgeon substations which is why they look so big in comparison. The scale is correct. You will see the size of the Dudgeon substation on the accompanied site inspection. This A3 picture produced by Julian Pearson that you've already seen shows the size of the Boreas converter halls with a London double-decker bus inserted to give scale.

Since the converter halls will be placed on relatively high ground, Vattenfall have stated in their DCO that screening will not be effective. However, we believe that screening could be effective for Ivy Todd and Necton if placed here (place screening on model) and you can see that the raising of the trees (green area) on the bank (white area) is an important requirement, especially in the first ten years as the trees are quite small when first planted. Ideally, the trees would be further from the converter halls but the compound would have to be bigger to accommodate this benefit.

Vattenfall have stated that an earth bank would not be in keeping with the surrounding landscape and that they are following the industry standard. Our position is that these converter halls and associated equipment will form the biggest substation in the world and they are not and cannot be in keeping with the landscape in any way. As you can see from the model, the installation is enormous and nothing has been done world-wide on this scale before. With earth banks, screening could at least be effective and would be natural. It has already been done for the Northern Distributor road around Norwich.

For your orientation for the accompanied site visit on Thursday, this is the Top Farm position we proposed for the converter halls (place flag and re-position converter halls). As you can see, it's less obtrusive. Vattenfall have stated this site would be more expensive to use because of the additional movement of earth required. We would like that earth not to be wasted, but to be repositioned as the screening bank.

We would welcome seeing a Vattenfall model if it differs from ours.

Note:

The Boreas DC infrastructure is 1.8 gW entailing two converter halls. Vanguard is another 1.8 gW with two further converter halls, making 3.6 gW in total. The Dudgeon AC infrastructure is 0.5 gW so the equivalent Boreas substation in AC would have an increased floor area of approximately three times but there would be no increase in height. As demonstrated by the model, AC would be a very much better fit for the Necton rural landscape but was never discussed as an option.

From: nectonparishcouncil@gmail.com
To: [Norfolk Boreas](#)
Subject: NORB- 004 images as requested
Date: 28 January 2020 09:24:01

Good morning

Our ref : NORB-004

The Planning Inspectorate have asked Necton Parish Council to send in the photo-montages of the Boreas / Vanguard substations referred in our representation at the Issue specific hearing on 21 January. These are they. Please download and send from NPC. You have also requested our wording and photographs of our model which will be sent shortly.

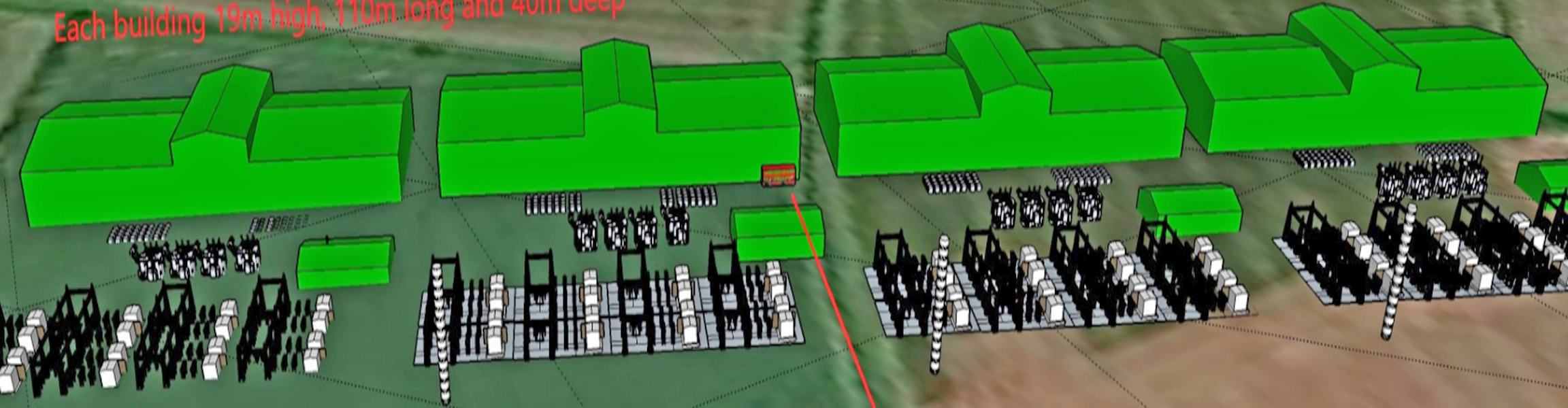
Kind regards

Justine Luckhurst
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office: 01760 721665

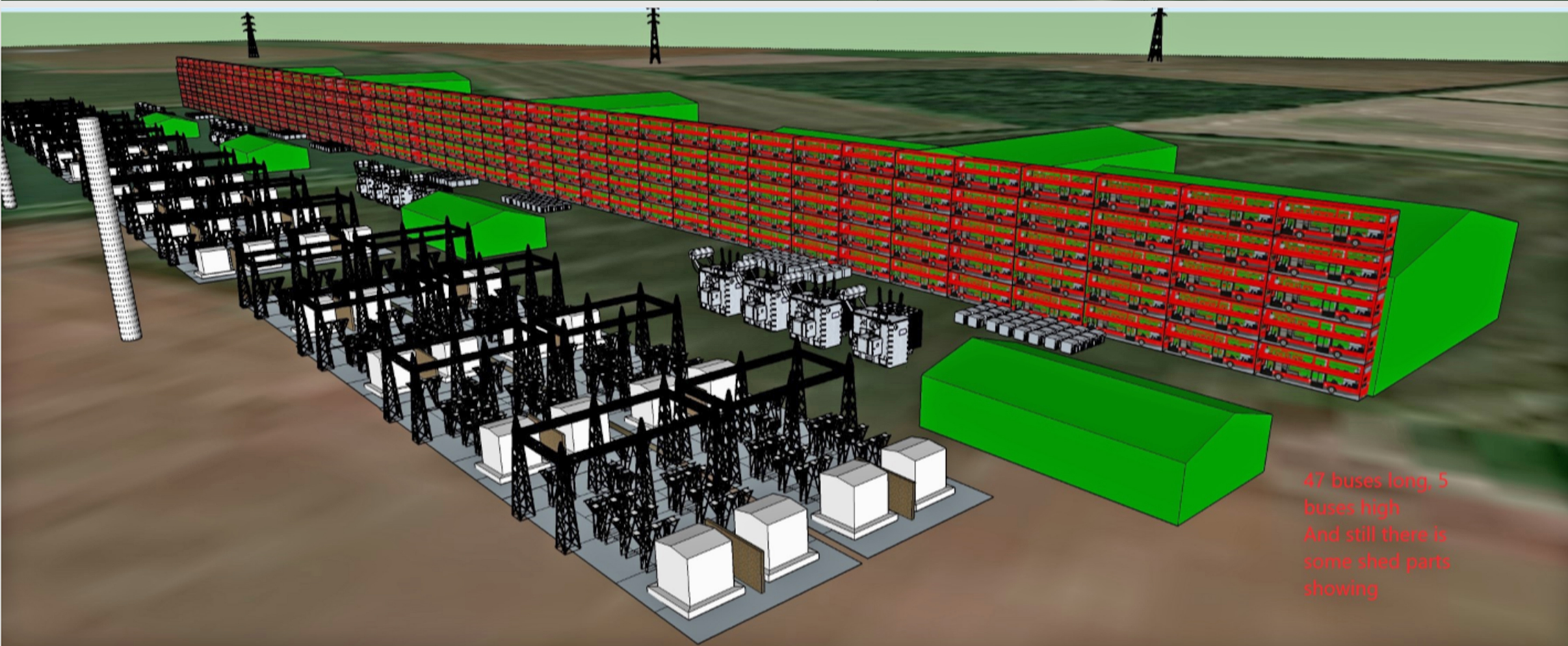
website: www.nectonparishcouncil.norfolkparishes.gov.uk

Each building 19m high, 110m long and 40m deep



To scale, London
Double Decker Bus

Double Decker Bus



47 buses long, 5 buses high
And still there is some shed parts showing

From: nectonparishcouncil@gmail.com
To: [Norfolk Boreas](#)
Subject: email 1 of 3
Date: 30 January 2020 11:58:07

Good morning

Our ref : NORB-004

"Necton Parish Council were asked to provide some photos of the Boreas & Vanguard 3-D model showing the substation in two positions, that of the DCO and that preferred by Necton Parish Council. Both positions with and without the preferred mitigation of an earth bank with mature trees on top.

Attached are seven photos:

- four photos of the model converter halls in both locations, with and without the mitigation
- a closeup showing a model London double-decker bus beside the converter halls
- a photo of the current Dudgeon substation with the sun shining
- a panoramic shot of the model from the current Dudgeon substation viewpoint also showing the National Grid extensions planned.

We were sorry the accompanied site visit happened on a grey day with no sun."

Kind regards

Justine Luckhurst
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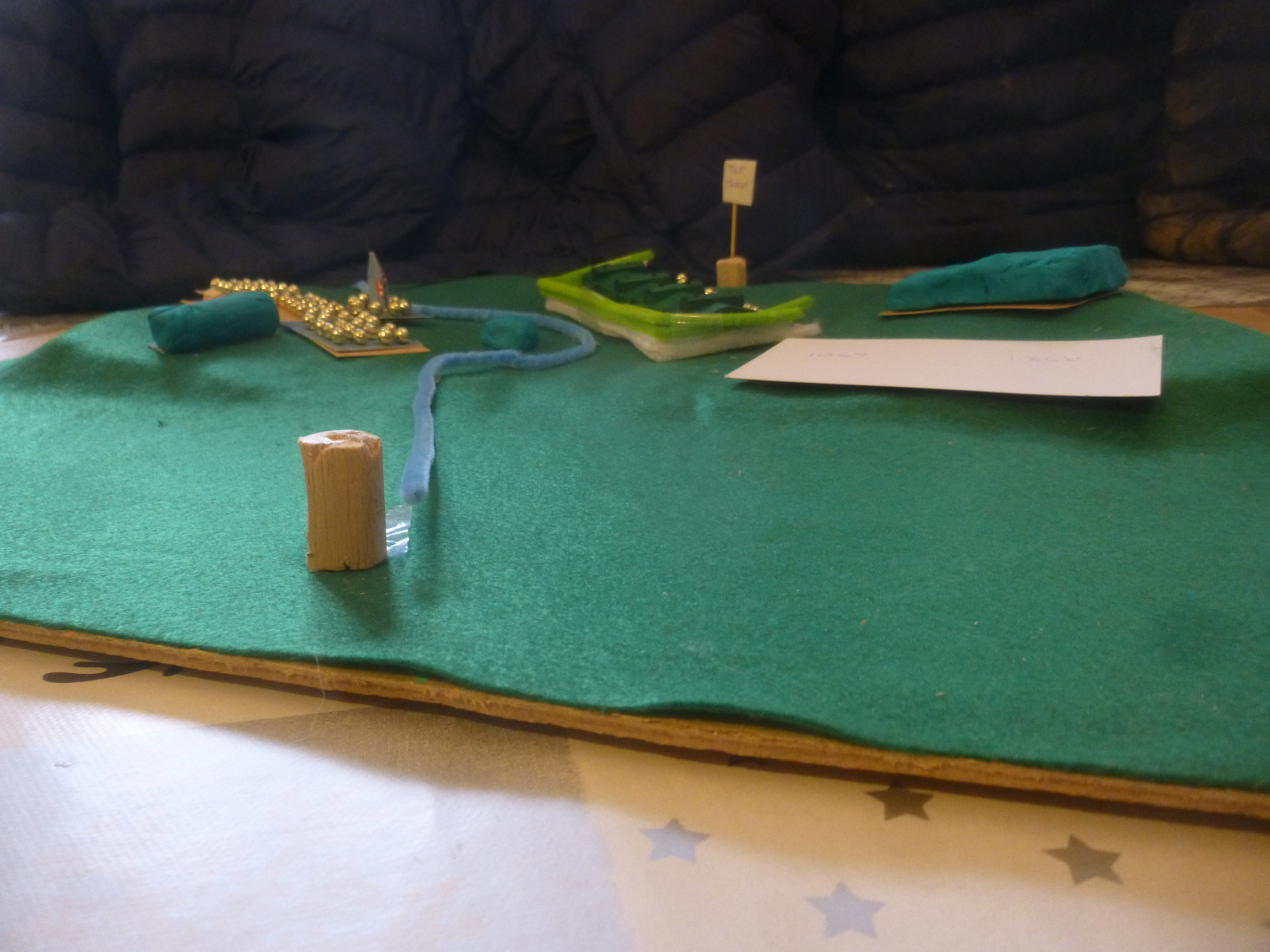
website: www.nectonparishcouncil.norfolkparishes.gov.uk



TOP
FARM









B + V

CITR





Ivy
Todd

TOP
FARM