

# Memorandum

To: Michael Williams

From: Matthew Cand; Paul Jindu

Copies:

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Project: Batsworthy Cross Wind Farm

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Subject: Batsworthy Cross Wind Farm - Installed Noise Monitoring Locations

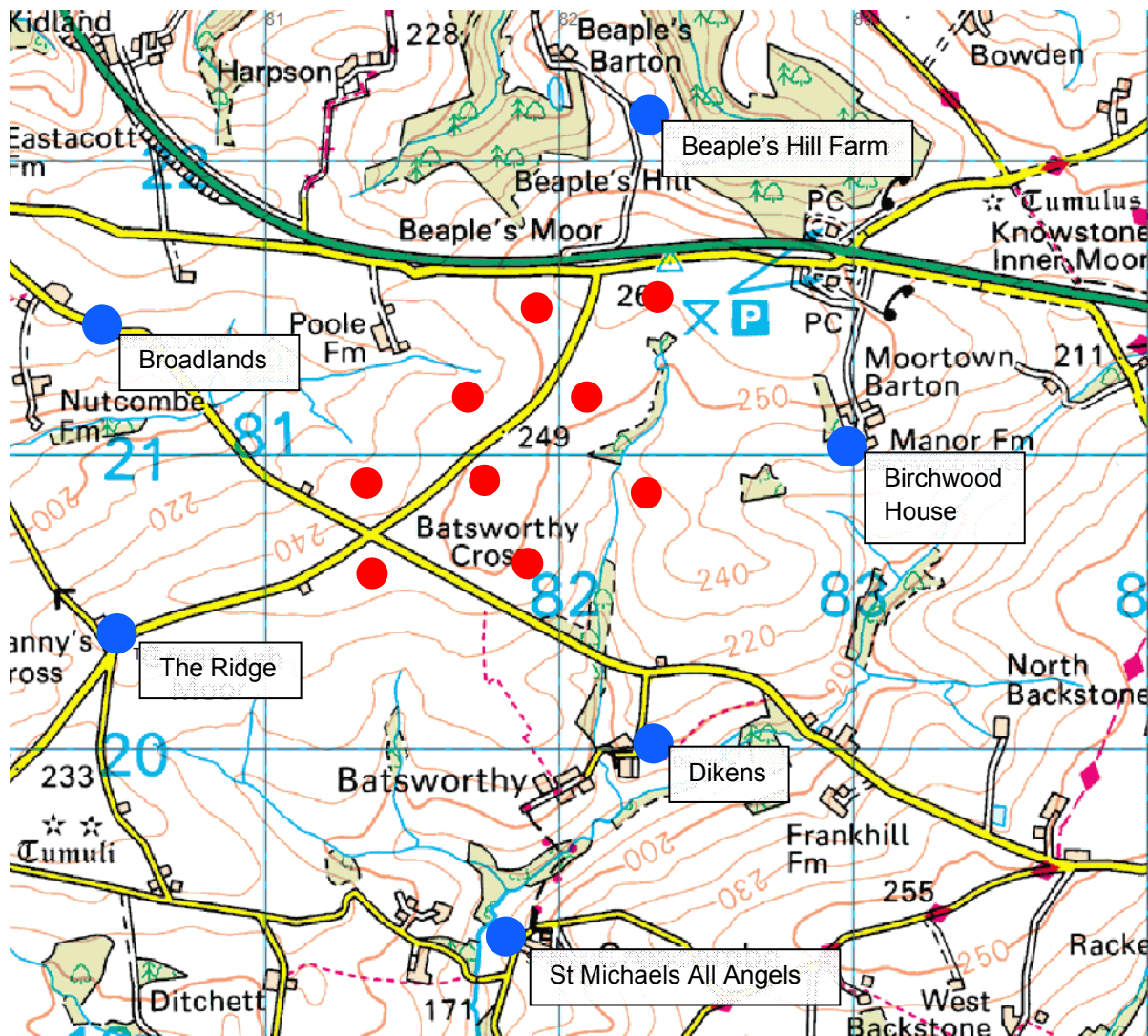


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Hoare Lea have been appointed on behalf of RWE Innogy UK Limited to conduct the operational noise assessment of the Batsworthy Cross Wind Farm. As part of the agreed noise compliance measurement procedure, we are undertaking measurements at a number of residential properties around the wind farm. Following consultation with North Devon Council and local residents, noise monitoring equipment was installed at a total of 6 locations on the 18<sup>th</sup> May 2016.

The map below shows all 6 installed noise monitoring location marked with blue dots. Further commentary is provided below. All locations were selected based on a number of considerations, such as the proximity to the turbines and the range of sources influencing the background noise environment. All locations were agreed on site with a consultant appointed by North Devon Council.



## Birchwood House

Birchwood House is located to the east of the wind farm, and is one of a group of dwellings which includes Manor Farm and Manor Farm cottage. The location at Birchwood House was chosen due to its relative proximity to the turbines, and increased distance from the farming activities at Manor Farm. Following discussions with the resident, the equipment was installing in a lower cultivated area where the turbines were more audible, as there was a reduced influence from wind in the trees and lower background noise compared to the more open garden area closer to the property. Noise sources audible at this location included birdsong, wind disturbed vegetation, as well as the turbines. A rain gauge was also installed at this location.





## Beaple's Hill Farm

Beaple's Hill Farm is located to the north of the wind farm. In relation to neighbouring properties in the same area, this location was chosen for its relative proximity to the wind farm. The equipment was installed in the rear amenity area of the property facing the wind farm where some turbines were visible. The location is bordered by an open field with farm animals. Noise sources audible during the site visit included occasional aircrafts, birdsong, farm animals, distant road traffic and wind disturbed vegetation, and turbines faintly audible at times.



## The Ridge

This is an isolated property to the south west of the site. The equipment was installed in the rear garden area facing the wind farm, but more than 3m from the property façade, and close to where previous measurements were conducted at planning stage. The location chosen had a lower background noise compared to the south-east side of the property, because of the reduced tall tree coverage. Noise sources include birdsong, intermittent road traffic, and turbines audible at times.





## Dikens Cottage

The location was chosen out of a number of neighbouring locations (including East and West Batsworthy Farm) with a comparable proximity to the wind farm, but the cottage had relatively reduced tall vegetation cover and was further away and screened from the stream/river to the west. The equipment was installed in the centre of a large garden/orchard area. Noise sources audible at the time included occasional aircrafts flyover, birdsong, dogs barking, wind disturbed vegetation, and turbines at times.



## Broadlands

Broadlands was chosen as the nearest to the wind farm in a group of properties located to the west of the site. Although the property included several dogs, this was considered unlikely to affect the background noise for the majority of the periods measured, and the property also had lower height vegetation compared to other dwellings located further to the west. The equipment was installed at the end of an extended garden area facing the windfarm, chosen to be furthest from the animals on the other side of the property and to minimise damage to the lawn. Noise sources include dogs barking, distant road traffic, and wind-disturbed vegetation, as well as occasional aircraft and farm machinery activity to the south. Turbines were faintly audible at times.



## **St Michaels All Angels**

St Michaels All Angels is a dwelling located to the south of the wind farm, which was selected following consultation with the resident and RWE. The equipment was installed in the garden area approximately 3.5m from the property façade, on the side facing the windfarm and where the turbines were most audible according to the resident. Noise sources audible at the time of the visit included occasional aircrafts pass-by, birdsong, dogs barking, neighbouring livestock and wind-disturbed vegetation.





**Table 1** - Coordinates of installed noise monitoring equipment

<b>Property Name</b>	<b>East</b>	<b>North</b>
Birchwood House	282942	120996
Beaple's Hill Farm	282300	122123
The Ridge	280502	120389
Dikens Cottage	282304	120016
Broadlands	280468	121418
St Michaels All Angels	281812	119364