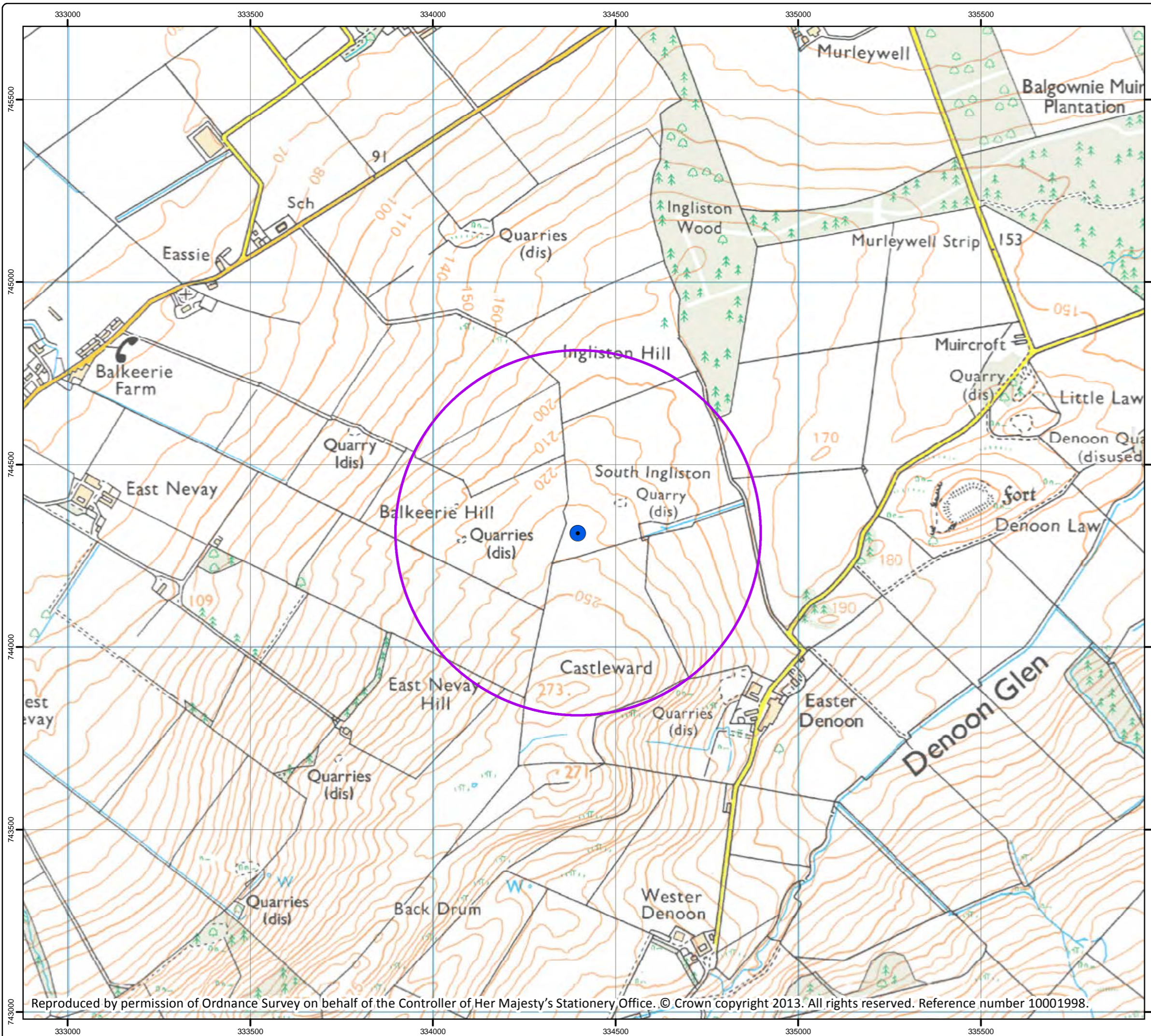




Appendix A: Site Location Plan



Legend

-  Survey Area
-  Turbine Location

Do not scale this map

Client
Locogen

Project
Ingliston Hill Single Turbine

Title
Site Location Plan

Status
FINAL

Drawing No. 164621 - 001	Revision
-----------------------------	----------

Scale 1:10,000	A3	Date 10 Sept 2013
-------------------	----	----------------------

Drawn FR	Checked xx	Approved FR
-------------	---------------	----------------



Craighall Business Park, Eagle Street, Glasgow, G4 9XA
Tel: 0141 341 5040
Fax: 0141 341 5045

Appendix B: Site Photographs



Photograph 1: A view of the proposed turbine location.



Photograph 2: A view of the deer fence along the east site boundary.



Photograph 3: A breach in the deer fence along the east site boundary.



Photograph 4: A view of the improved grassland habitat that dominates the site.



Photograph 5: A view of the tall ruderal vegetation along the field boundary in the east.



Photograph 6: A view of the scattered sycamore trees in the east of the site.



Photograph 7: A view of the rubble pile associated with the former quarry to the east of the proposed turbine location.



Photograph 8: A view of the scattered gorse scrub.

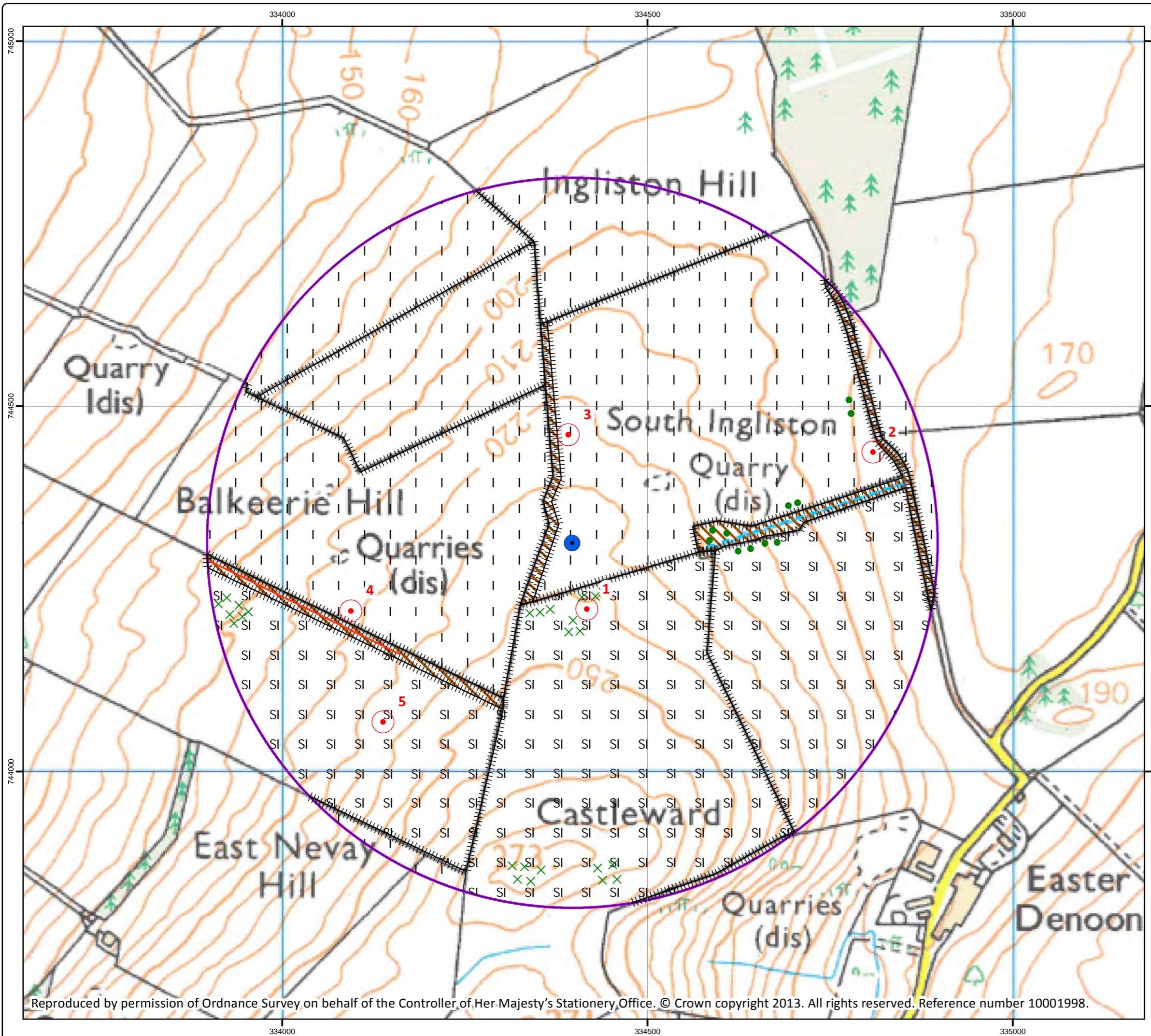


Photograph 9: A view of one of the many rabbit holes present within the site.



Photograph 9: A view of the stone wall along a field boundary in the west of the site.

Appendix C: Phase 1 Habitat Map



Legend

- Target Note
- Turbine Location
- Survey Area

JNCC Code

- A2.2 - Scattered Scrub
- A3.1 - Scattered Broadleaved Trees
- B4 - Improved Grassland
- B6 - Semi-Improved Grassland
- C3.1 - Tall Ruderal
- J2.4 - Post & Wire Fence
- J2.5 - Wall
- J2.6 - Dry Ditch

Do not scale this map

Client	Locogen
--------	---------

Project	Ingliston Hill Single Turbine
---------	-------------------------------

Title	Phase 1 Habitat Survey
-------	------------------------

Status	FINAL
--------	-------

Drawing No.	164621 - 001	Revision	
-------------	--------------	----------	--

Scale	1:5,000	A3	Date	10 Sept 2013
-------	---------	----	------	--------------

Drawn	FR	Checked	xx	Approved	FR
-------	----	---------	----	----------	----



Craighall Business Park, Eagle Street, Glasgow, G4 9XA
 Tel: 0141 341 5040
 Fax: 0141 341 5045

Appendix D: Target Notes

Date of Survey: 30th August 2013

Recorder Name: Karen Hassard

Weather Conditions: Bright and clear with an air temperature of 17°C.

Target Note	Details
1.	Feature: Scattered scrub Description: This habitat is present to the south of the proposed turbine location. Although it is not continuous it may provide a suitable commuting and foraging route for gap tolerant bat species such as pipistrelles.
2.	Feature: Post and wire fencing Description: A deer fence is present along the east site boundary adjacent to the coniferous woodland. A breach was discovered in the bottom of the fence but no evidence of badger was identified.
3.	Feature: Tall ruderal Description: tall ruderal vegetation was present along the field boundary to the west of the proposed turbine location. The longer vegetation may provide suitable cover and shelter for commuting mammals.
4.	Feature: Wall Description: A stone wall is present along the field boundary in the south west of the site. It may provide suitable shelter for reptiles and amphibians.
5.	Feature: Rabbit warrens Description: Rabbit holes were recorded in the field to the south west of the turbine. These looked similar to badger holes from the outside but were identified to split into smaller holes just inside the entrance. These tunnels were considered too small for badger. No badger field signs were identified.

Appendix C – Manufacturer's Noise Data and ReSoft Windfarm Report Exports

Calculation Model Attenuation Turbine Noise Information

Source of Turbine Noise Data

- Use turbine data from layout (different turbines can be used)
 Specify turbine data file (single turbine for all locations)

Turbine file name (first turbine if using the layout) :

Wind speed and height to be used for the noise calculation

- Use reference wind speed m/s at 10.00m

If the layout contains different turbines only common reference speeds will be shown.

- Use specified wind speed m/s at m height

With the following wind profile

- Use exponent
 Use roughness length

The wind profile is used to calculate the wind speed at the reference height from the specified speed and height

- Noise levels at houses
 Noise levels over the site map region

Calculation Model Attenuation Turbine Noise Information

Noise Model

- Danish noise standard
- ISO 9613

Noise spreading model

ISO 9613 suggests the 500Hz attenuation coefficient is used for broadband spreading. This suggests and it is recommended that 0.002 is used for the Danish model.

Only the alternate ISO 9613 ground model can be used with broadband spreading.

If the ISO 9613 model is used with broadband spreading and no ground attenuation the result will be 3dB lower than the Danish model because hard ground is not included as a default in the ISO 9613 model.

- Use broadband sound power level and attenuation : dB(A) / m
- Use spreading by octaves (attenuation is specified on the attenuation page)
- Use line of sight distance (includes turbine hub height)

Additional Factors

- Add a base level noise of dB(A)
- Use a distance limit of metres (noise ignored beyond this distance)

OK

Cancel

Help

Calculation Model Attenuation Turbine Noise Information

Atmospheric Octave Attenuation

- Use default attenuation for Danish model
 Specify attenuation manually
 Use ISO 9613 attenuation (specify humidity and temperature)

Humidity (%): 70%

Temperature (deg C): 10

Attenuation Coefficients (dB/m)

Hz 63 125 250 500 1000 2000 4000 8000

0.00012 0.00041 0.00104 0.00193 0.00366 0.00966 0.0328 0.117

 Keep attenuation as default

Reset attenuation to original defaults

Ground Attenuation

- No ground attenuation (Danish = hard ground, 3dB more than with ISO 9613)
 ISO 9613
 Alternative ISO 9613

Porosity Factor (0=hard, 1=soft)

Source porosity factor: 0.5

Middle: 0.5

Receiver: 0.5

Receiver height (m): 4

 Use receiver height and porosity from layout

OK

Cancel

Help

Calculation Model Attenuation Turbine Noise Information

This turbine data is just for information. Use the Turbine Studio to change any values.

Turbine File : C:\DROPBOX\WINDFARMR4\WTDB\EWT - Directwind\EWT

Turbine broadband sound power level : 99.5 dB(A)
Reference measurement windspeed : 10 m/s at height : 10 m
Reference measurement roughness : 0.05 m
Variation of noise with wind speed : 0.8 dB(A) / m/s
Tonal penalty : 0 dB(A)

Octave data - dB(A)

Hz	63	125	250	500	1000	2000	4000	8000
	80.75	86.95	92.25	93.55	92.15	89.65	82.75	70.95

OK

Cancel

Help

```

Project name           : INGLISTON FARM
Layout name           : INGLISTON FARM.WFL

Noise data file name  : NINGLISTON.WFN
Created               : 14:23:37 28-Aug-2013
Revised              : 09:37:44 18-Sep-2013
Revision             : 47
Title                :
Author               :
Comment              :

Turbine noise data    : From the layout
Turbine file (first)  : ..\WTDB\EWT - Directwind\EWT Directwind - Measured 500kW ocata

NOISE MODEL
Noise standard        : ISO 9613
Noise spreading model : Octaves
Use line-of-sight distance: Yes

ATMOSPHERIC ATTENUATION
Source of attenuation : ISO 9613
Humidity              : 70 %
Temperature           : 10 deg C
Attenuation coefficients
  63 Hz                : 0.00012
  125 Hz               : 0.00041
  250 Hz               : 0.00104
  500 Hz               : 0.00193
  1000 Hz              : 0.00366
  2000 Hz              : 0.00966
  4000 Hz              : 0.03280
  8000 Hz              : 0.11700

GROUND ATTENUATION
Formulation           : ISO 9613
Source porosity       : 0.50
Middle porosity       : 0.50
Receiver porosity     : 0.50
Receiver height       : 4.00

WIND SPEED
Turbine reference     : No
Wind speed            : 10.00
Wind speed height     : 10.0
Wind profile Z0       : 0.0500

ADDITIONAL FACTORS
Base noise level      : None
Distance limit       : None

```

House ID	Easting	Northing	Altitude	Noise (db)
1	334985	743907	0	29.75
2	333417	744287	0	26.44
3	333268	744163	0	24.83
4	333343	744934	0	24.05
5	333409	745008	0	24.18
6	334866	743812	0	30.17
7	333528	745106	0	24.47



Emergya Wind Technologies BV

DW54

Category:	Specification	Page 1 / 11
Doc code:	S-1005030	

Created by:	RH	Creation Date:	09-05-12
Checked by:	LE	Checked Date:	09-05-12
Approved by:	TY	Approved Date:	09-05-12

Title:

Specification


Sound power level DW54 - 500kW

Revision	Date	Author	Approved	Description of changes
01	17-08-12	RH	TY	corrected format
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Emergya Wind Technologies BV


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	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 2 / 11
	Doc code:	S-1005030	

Contents


1	Introduction	3
2	Measurements	4
3	Results	5
3.1	Corrected sound power level graphical	7
3.2	Tonal Audibility	7
3.3	Uncertainty	9
	Appendix 1 Third octave band sound power levels	10
	Appendix 2 measured sound pressure levels	11

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 3 / 11
	Doc code:	S-1005030	

1 Introduction

Following information with regard to the sound power level measurements, are distilled from measurement data of a **DIRECTWIND** 54 500kW turbine, located at the Elbaweg in Venhuizen, the Netherlands.

The measurements were performed by a third party according to the International Standard IEC 64100-11 December 2002: "Wind turbine generator systems – Part 11: Acoustic noise measurement techniques".


	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 4 / 11
	Doc code:	S-1005030	

2 Measurements

The measurements have been performed by measuring the sound pressure levels in the third octave bands of 25 Hz to 10,000 Hz at the reference point downwind of the operating turbine. The background noise level was measured during standstill of the turbine.

Measurements were carried out on the ground on a hard board according to the IEC standard. This method doubles the pressure on the microphone which raises the sound pressure level with +6 dB(A) compared to free field measurements.

The measured sound pressure levels can be found in Appendix 2 measured sound pressure levels.

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 5 / 11
	Doc code:	S-1005030	

3 Results


The sound power levels are calculated from the measured sound pressure levels according to IEC-61400-11. The wind velocities have been corrected for a reference roughness Z_0 of 0.05m by applying a factor of 1.1 on the measured wind velocity, and the sound power levels have been calculated for a reference height of 10m.

Sound power level L_{wa} in dB(A) Wind speed at a height of 10m		middle frequency of the octave bands [hz]								
		31.5	63	125	250	500	1k	2k	4k	8k
Wind 5 m/s	95.0 dB(A)	67.3	76.3	82.5	89.0	90.3	87.9	85.3	80.6	71.0
Wind 6 m/s	96.6 dB(A)	68.2	78.0	84.1	90.7	92.0	89.5	86.7	81.4	72.4
Wind 7 m/s	97.7 dB(A)	69.5	79.3	85.5	91.8	93.0	90.7	88.0	82.2	72.9
Wind 8 m/s	98.8 dB(A)	70.9	80.7	86.9	92.6	94.1	92.0	89.2	83.0	72.8
Wind 9 m/s	99.7 dB(A)	72.4	82.1	88.3	93.5	94.7	92.9	90.3	83.5	72.0
Wind 10 m/s	99.5 dB(A)	72.2	81.6	87.8	93.1	94.4	93.0	90.5	83.6	71.8

Table 3.1 gives the calculated sound power levels at the different wind speeds, and the calculated octave band power levels. Figure 3.1 gives the calculated 3rd octave band sound power levels, the values for these can be found in Appendix 1 Third octave band sound power levels.

Sound power level L_{wa} in dB(A) Wind speed at a height of 10m		middle frequency of the octave bands [hz]								
		31.5	63	125	250	500	1k	2k	4k	8k
Wind 5 m/s	95.0 dB(A)	67.3	76.3	82.5	89.0	90.3	87.9	85.3	80.6	71.0
Wind 6 m/s	96.6 dB(A)	68.2	78.0	84.1	90.7	92.0	89.5	86.7	81.4	72.4
Wind 7 m/s	97.7 dB(A)	69.5	79.3	85.5	91.8	93.0	90.7	88.0	82.2	72.9
Wind 8 m/s	98.8 dB(A)	70.9	80.7	86.9	92.6	94.1	92.0	89.2	83.0	72.8
Wind 9 m/s	99.7 dB(A)	72.4	82.1	88.3	93.5	94.7	92.9	90.3	83.5	72.0
Wind 10 m/s	99.5 dB(A)	72.2	81.6	87.8	93.1	94.4	93.0	90.5	83.6	71.8

Table 3.1 Sound power levels and the octave band data

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 6 / 11
	Doc code:	S-1005030	

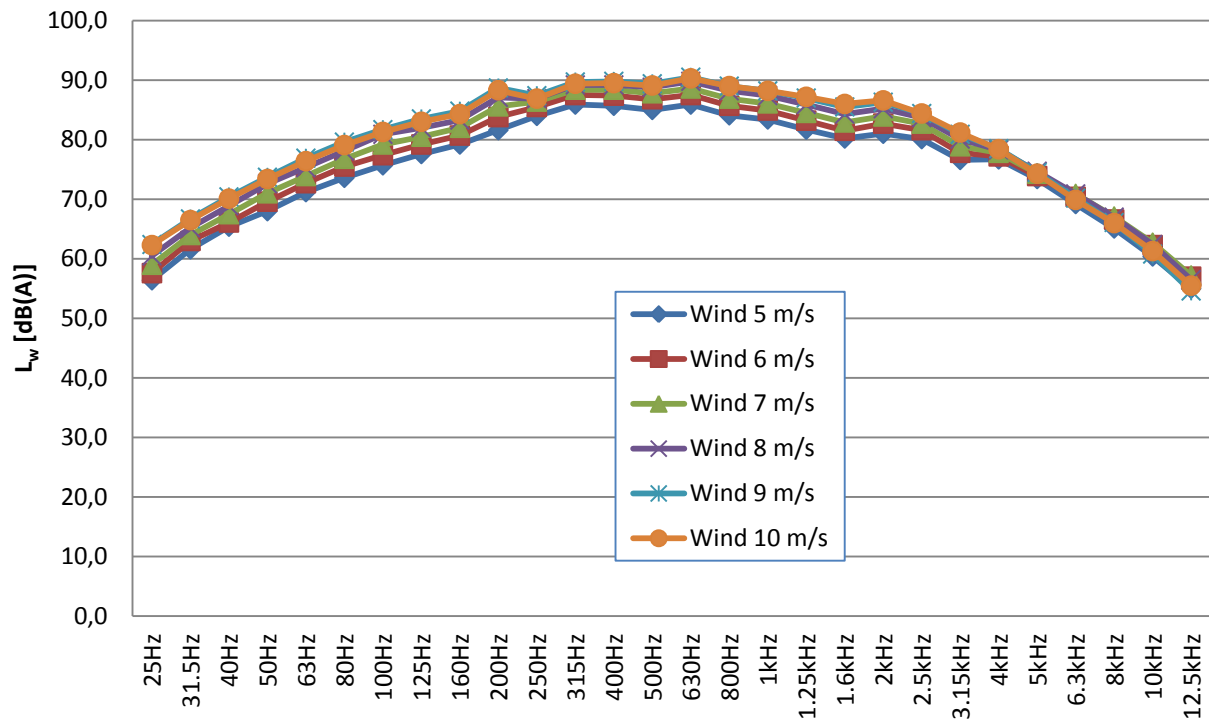



Figure 3.1 The 3rd octave band Sound Power Level spectra

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 7 / 11
	Doc code:	S-1005030	

3.1 Corrected sound power level graphical

Figure 3.2 and table 3.2 below provides all the calculated sound power levels at the different wind speeds at reference conditions ($h = 10$ m and $z_0 = 0.05$ m) and after correction for the background noise. The figure also gives the 4th order regression on this curve:

$$L_W = 0.0033V_{wind}^4 - 0.1327V_{wind}^3 + 1.7261V_{wind}^2 - 7.8733V_{wind} + 106.02 \text{ dB(A)}$$

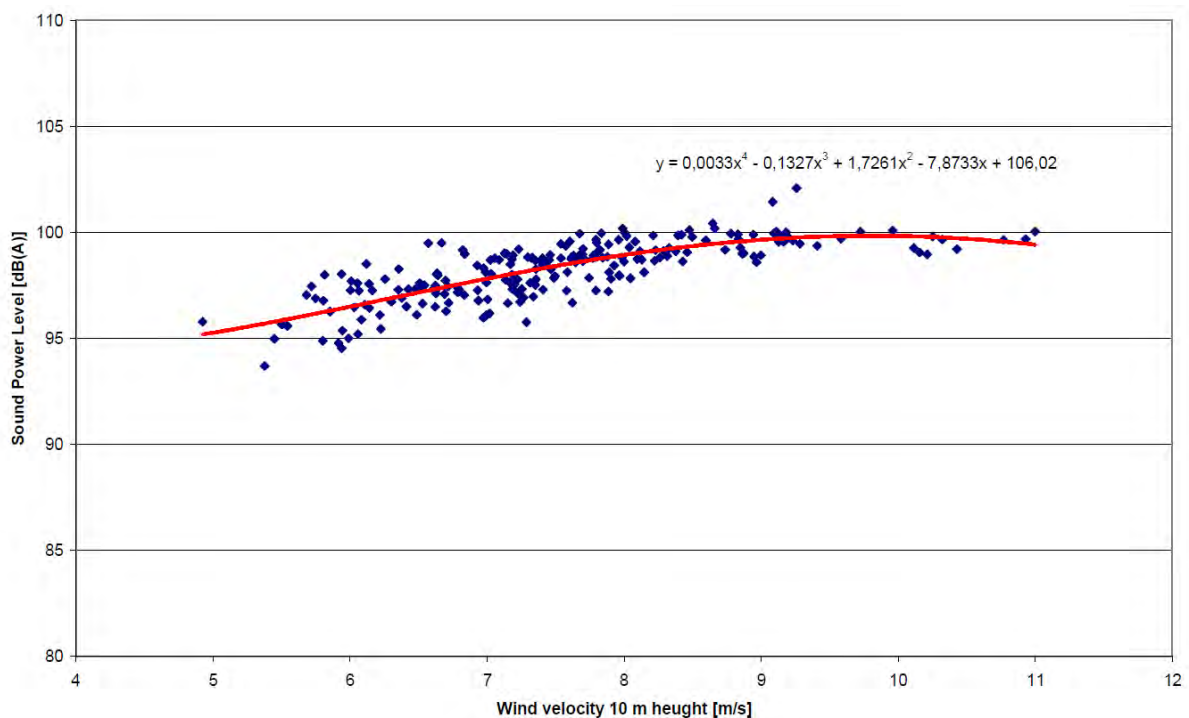



Figure 3.2 the calculated sound power level at different wind speeds

Sound power level with 4 th Order regression in dB(A)	
Wind speed at a height of 10m	
Wind 5 m/s	95.3 dB(A)
Wind 6 m/s	96.5 dB(A)
Wind 7 m/s	97.8 dB(A)
Wind 8 m/s	98.9 dB(A)
Wind 9 m/s	99.6 dB(A)
Wind 10 m/s	99.8 dB(A)

Table 3.2 Sound Power Levels with 4th Order regression

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 8 / 11
	Doc code:	S-1005030	

3.2 Tonal Audibility

The audibility of the tones in the sound was analysed at the reference position and is given in Table 3.3 Tonal Audibility. The most important frequencies are 2.2 and 4.4 kHz. In Table 3.3 also the tonal penalty according to ETSU-R-97 (The assessment and rating of noise from wind farms – September 2006) is given. For the tone level of 3.3, the ETSU penalty of 2.5 dB can be found in Figure 3.3. No penalties are incurred for audibility levels below 2.0 dB.

According to ETSU-R-97, the tonal penalty should be added at the receiver for the specific wind speed at which the tonal audibility is present.

Wind @ 10 m ([m/s])	5	6	7	8	9
ΔL_A [dB(A)]	3.3	0.9	1.5	0.7	-0.7
ETSU Penalty [dB]	2.5	-	-	-	-

Table 3.3 Tonal Audibility

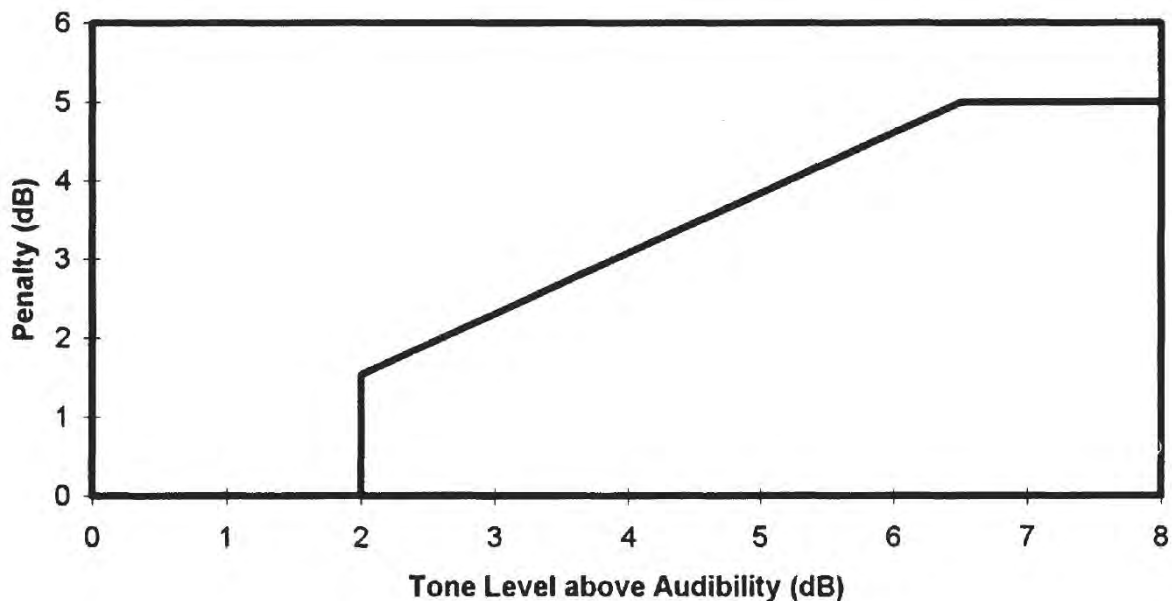



Figure 3.3 Tonal penalty according to ETSU-R-97


	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 9 / 11
	Doc code:	S-1005030	

3.3 Uncertainty

The following Table 3.4 gives the number of measurements and the uncertainty in dB(A) for each different wind speed.

Wind Class	Number of measurements	Uncertainty [dB(A)]
Wind 5 m/s	4	1.7
Wind 6 m/s	37	1.4
Wind 7 m/s	77	1.2
Wind 8 m/s	68	0.9
Wind 9 m/s	26	0.9
Wind 10 m/s	9	0.7

Table 3.4 Number of measurements and uncertainty


	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 10 / 11
	Doc code:	S-1005030	

Appendix 1 Third octave band sound power levels

V10[m/s]	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz
Wind 5 m/s	56,4	61,6	65,4	68,0	71,2	73,6	75,7	77,6	79,2
Wind 6 m/s	57,6	63,0	66,1	69,6	72,7	75,5	77,4	79,2	80,7
Wind 7 m/s	59,0	64,0	67,5	71,0	73,9	76,8	79,2	80,5	82,0
Wind 8 m/s	60,5	65,2	68,9	72,6	75,3	78,1	80,9	82,0	83,3
Wind 9 m/s	62,4	66,7	70,4	73,7	76,9	79,6	81,7	83,5	84,8
Wind 10 m/s	62,3	66,5	70,1	73,4	76,4	79,1	81,3	83,0	84,3

V10[m/s]	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz
Wind 5 m/s	81,6	84,0	85,9	85,7	85,0	85,9	84,1	83,4	81,7
Wind 6 m/s	83,8	85,5	87,5	87,4	86,8	87,5	85,7	84,9	83,2
Wind 7 m/s	85,6	86,4	88,4	88,4	87,8	88,6	86,9	86,1	84,5
Wind 8 m/s	87,1	86,9	89,2	89,2	88,8	89,8	88,2	87,4	85,9
Wind 9 m/s	88,7	87,4	89,7	89,8	89,4	90,5	89,0	88,2	87,0
Wind 10 m/s	88,3	86,9	89,4	89,5	89,1	90,3	89,0	88,2	87,2

V10[m/s]	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz
Wind 5 m/s	80,2	81,0	80,1	76,6	76,7	73,4	69,2	65,1	60,4	55,0
Wind 6 m/s	81,5	82,7	81,6	77,8	77,2	73,9	70,4	66,6	62,3	57,0
Wind 7 m/s	82,9	83,9	82,7	78,9	77,8	74,3	70,9	67,1	62,7	57,2
Wind 8 m/s	84,3	85,2	83,7	80,1	78,3	74,7	70,9	67,0	62,4	56,5
Wind 9 m/s	85,5	86,3	84,4	80,9	78,5	74,5	70,2	66,1	60,8	54,6
Wind 10 m/s	86,0	86,6	84,4	81,2	78,4	74,3	69,9	66,0	61,3	55,5

	Category:	Specification	Revision: 01
	Title:	Sound power level DW54 - 500kW	Page 11 / 11
	Doc code:	S-1005030	

Appendix 2 measured sound pressure levels

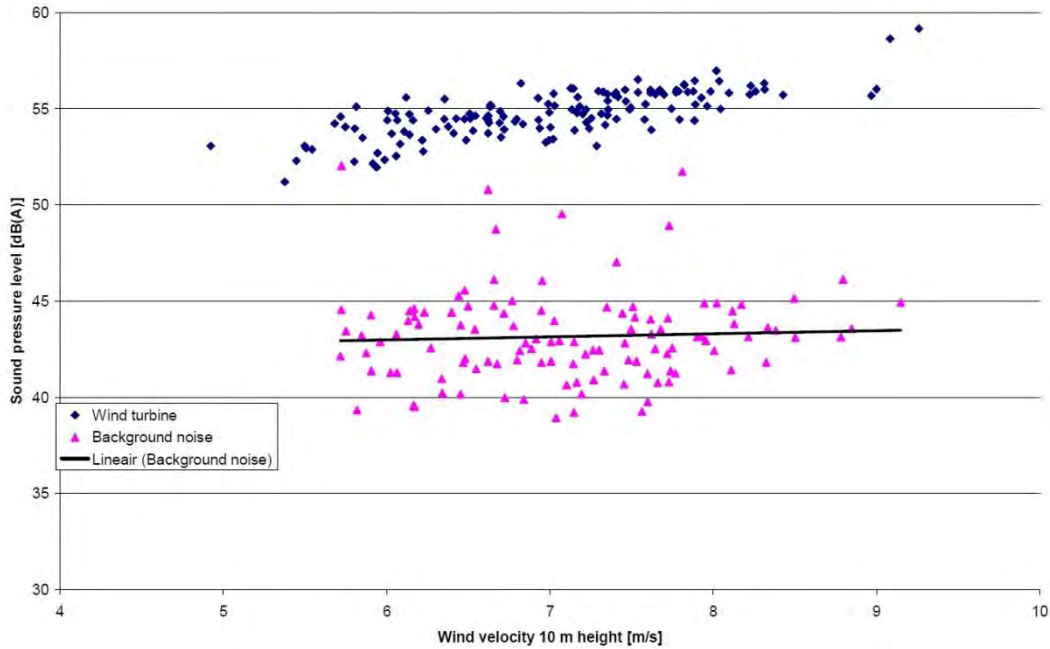


Figure 0.1 Measured sound pressure levels 11 November 2011

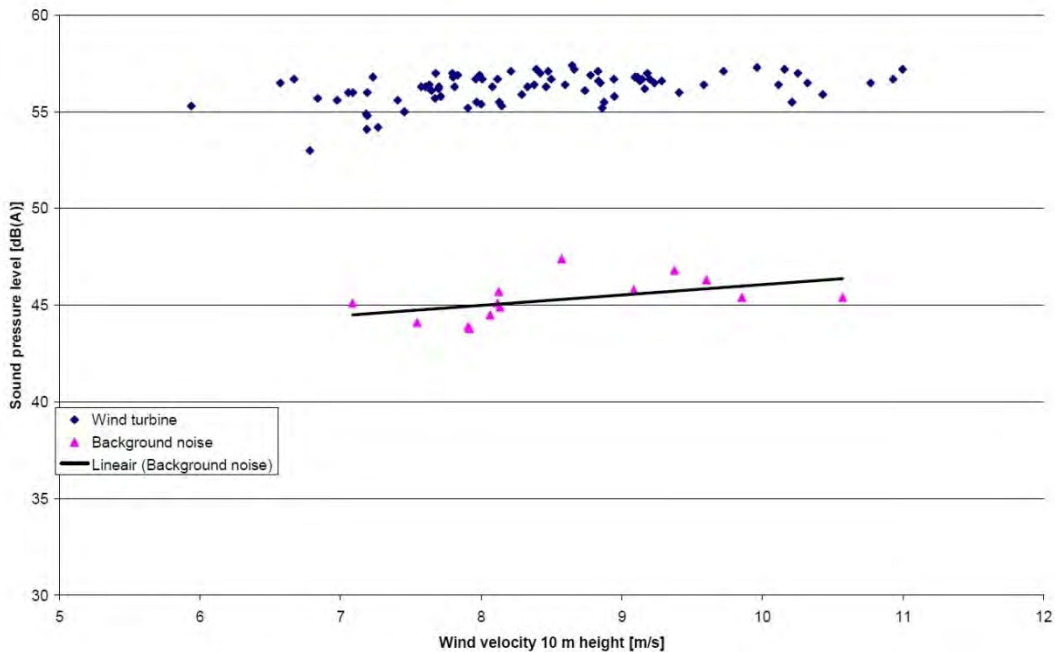


Figure 0.2 Measured sound pressure levels 15 February 2012

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Emergya Wind Technologies BV

Engineering

Category:	Specification	Page 1 / 2
Doc code:	S-1005020	

Created by:	TY	Creation Date:	07-12-11
Checked by:	MS	Checked Date:	07-12-11
Approved by:	TY	Approved Date:	07-12-11

Title:

Specification


Sound power warranty levels DW52/54 500kW

Revision	Date	Author	Approved	Description of changes
02	14-03-12	AB	TY	Modifications based on new IEC measurements
01	09-12-11	AB	TY	correction
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

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	Category:	Specification	Revision: 02
	Title:	Sound power warranty levels DW52/54 500kW	Page 2 / 2
	Doc code:	S-1005020	

Sound power levels

The warranted sound power levels are presented with reference to IEC 61400-11:2002.

V_{wind} at 10m height	DW52	DW54
5 m/s	96,5 dB(A)	97.0 dB(A)
6 m/s	97.5 dB(A)	98.0 dB(A)
7 m/s	98.5 dB(A)	99.0 dB(A)
8 m/s	99.5 dB(A)	100.0 dB(A)
9 m/s	100.3 dB(A)	100.5 dB(A)
10 m/s	100.5 dB(A)	100.5 dB(A)

Sound power level L_w in dB(A)

The warranted sound power levels are based on actual measurements executed by an independent noise measurement institute according to the preferred methods set out in IEC-61400-11.

Uncertainty levels are included in the warranted sound power levels.

At 5m/s a maximum tonal noise penalty of 2,5dB shall be considered according to ETSU-R-97 guidelines.

The measured third octave sound power levels are available upon request.

The values given in the table are valid for normal operational mode (rotation speed 0-24 RPM)

The calculation of the standardized wind speed at 10m height according to IEC 61400-11 is based on a terrain roughness length $Z_0=0,05m$.

In case validation measurements have to be performed, they should be executed according to the preferred methods set out in IEC-61400-11 by an independent measurement institute which is accredited to ISO/IEC 17025 to conduct measurements of wind turbine noise emissions.

EWT reserves the right to make modifications or adjust settings in order to comply with the warranted sound power levels.

Locogen Ltd, 44 Constitution St, Edinburgh, EH6 6RS
 Tel: +44 (0) 131 555 4745; Email: info@locogen.com
 Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

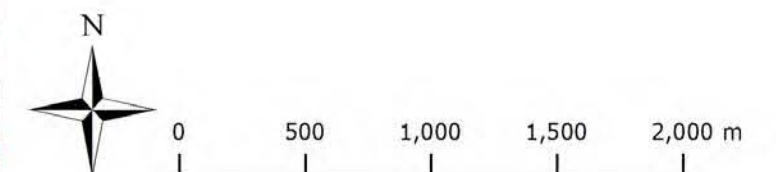
This map shows the proposed turbine location in black and the boundary of land ownership in blue.

Legend

- Turbine Location
- Boundary of Land Ownership

PROJECT:
Ingliston Farm

DRAWING TITLE: Location Plan
 DRAWING NO: ING001
 DOCUMENT SIZE: A3
 SCALE: 1:30,000
 DATE: 27/08/2013
 DRAWING BY: Bojan Jevtic
 APPROVED BY: Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed turbine site layout.

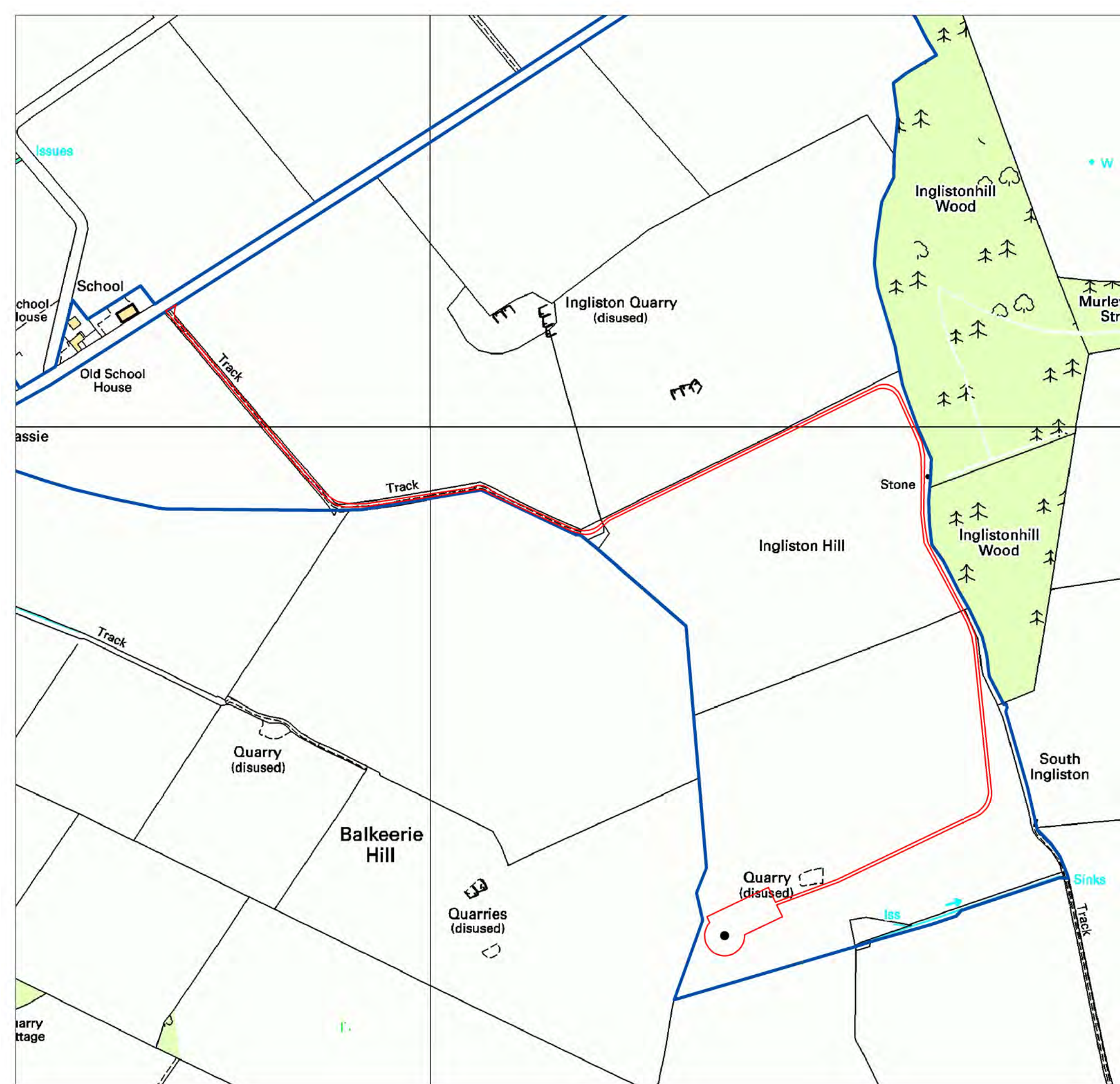
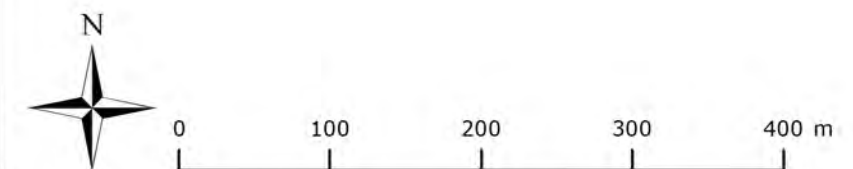
Legend

- Turbine Location
- Application Area : 13,707 m²
- Boundary of Land Ownership

PROJECT:

Ingliston Farm

DRAWING TITLE:	Site Layout
DRAWING NO:	ING002
DOCUMENT SIZE:	A3
SCALE:	1:5,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe











Project Description

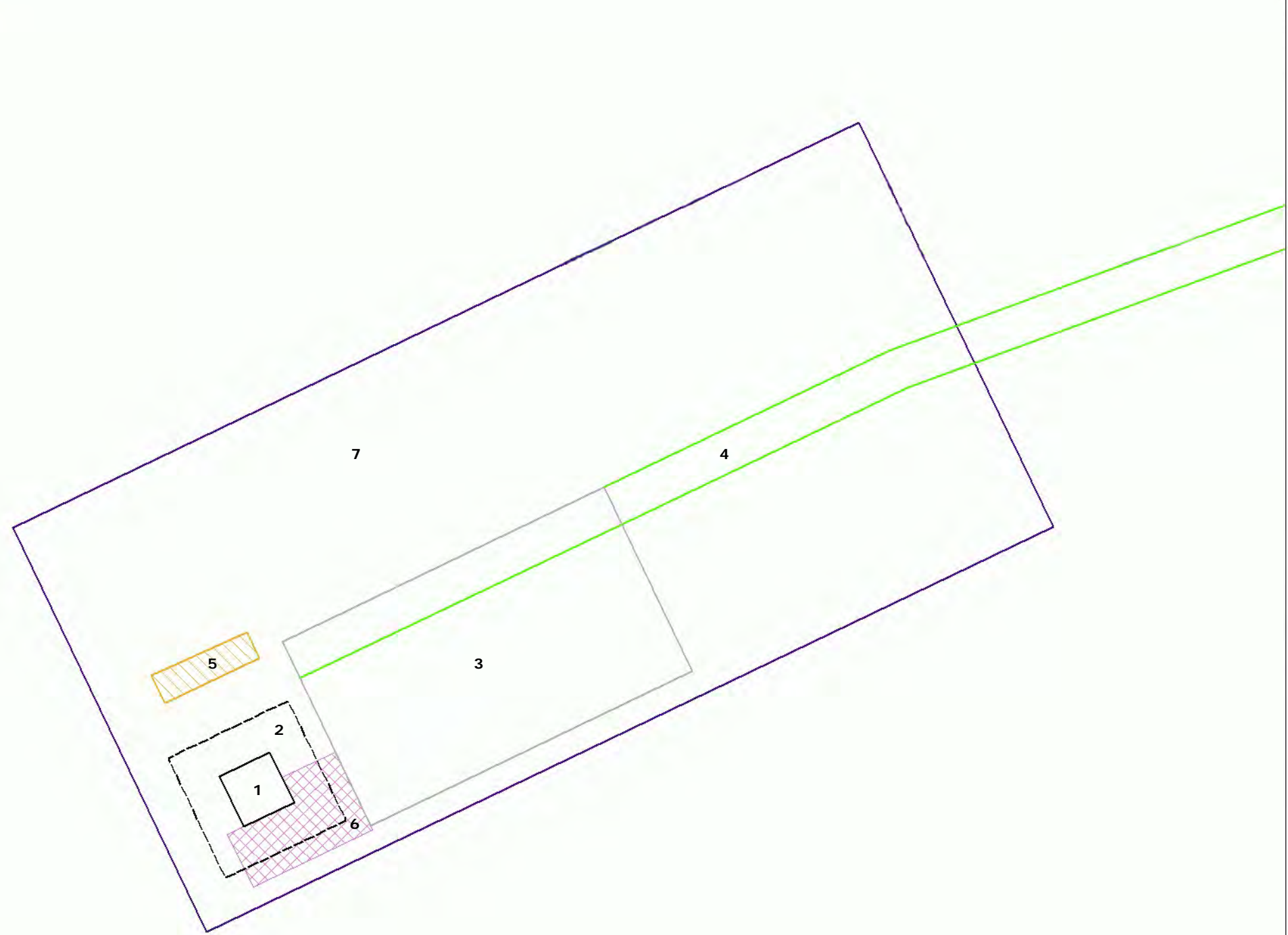
Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This drawing displays the block plan of the proposed wind turbine project at Ingliston Farm.
 The application site includes the turbine foundation, hardstanding, external substation, access track to the site and borrow pit.

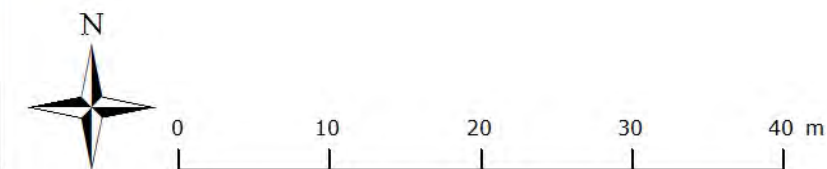
Legend

-  Turbine Base
-  Turbine Foundation
-  Hardstanding
-  Access Pad
-  External Substation
-  Access Track
-  Borrow Pit
-  Boundary of Land Ownership



- 1** Turbine base: 5.5m x 5.5m
- 2** Turbine foundation: 13m x 13m
- 3** Hardstanding: 35m x 20m
- 4** Length of new access track: approx 2,105m to edge of hardstanding
- 5** External substation: 10.3m x 3m
- 6** Access Pad
- 7** Borrow Pit: 92m x 44m

PROJECT:	Ingliston Farm
DRAWING TITLE:	Block Plan
DRAWING NO:	ING003
DOCUMENT SIZE:	A3
SCALE:	1:500
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe

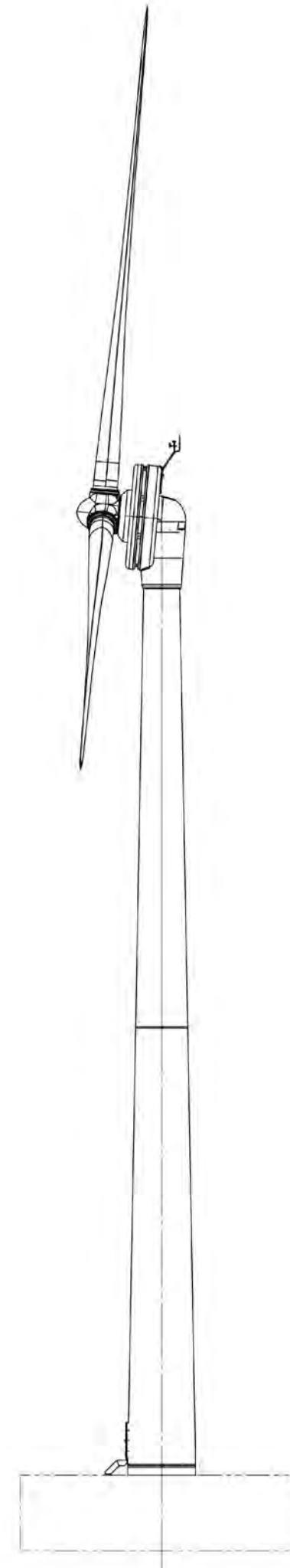
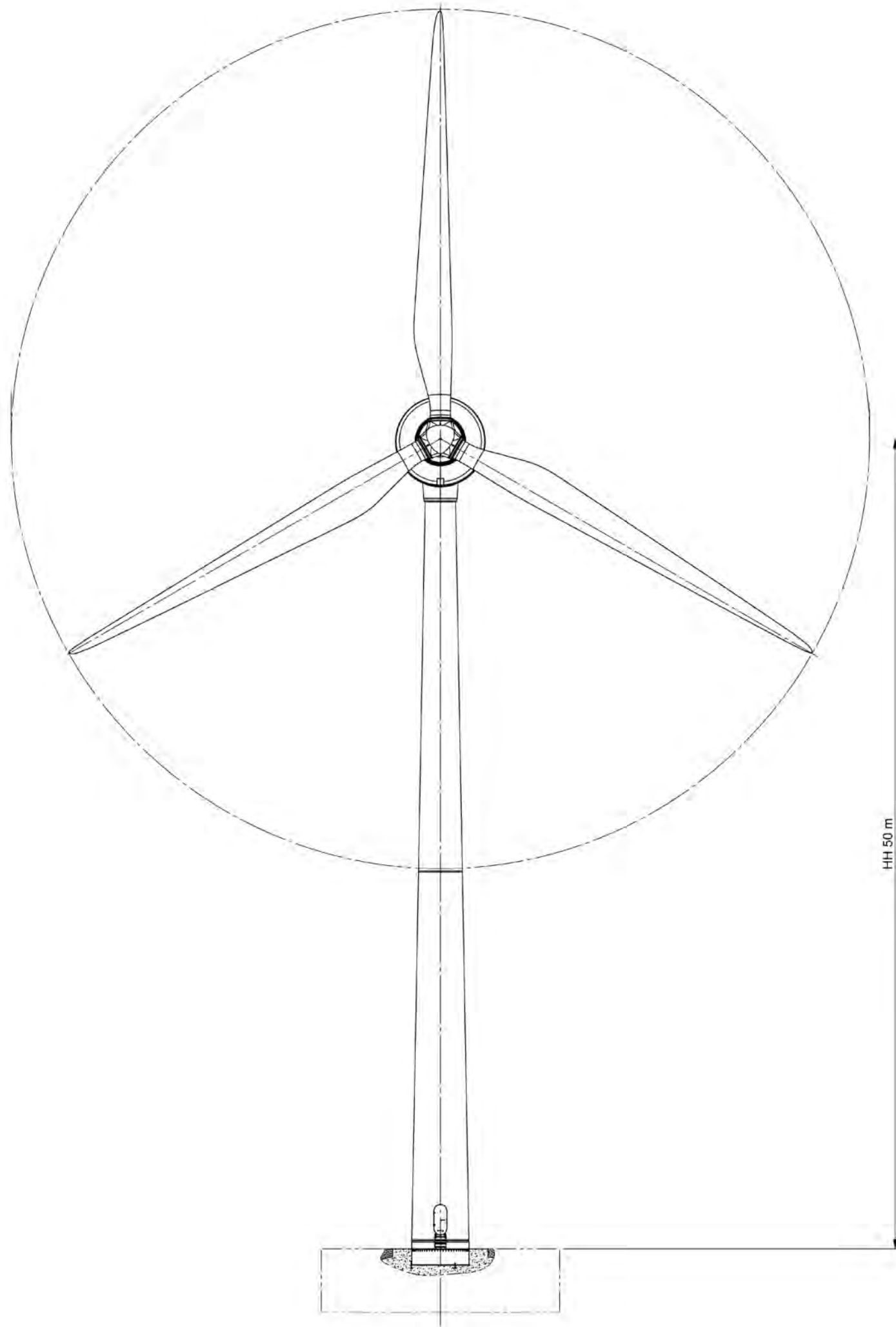


Project Description

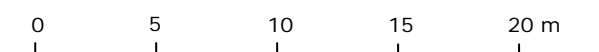
Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

This drawing details the elevation of the proposed wind turbine.



PROJECT:	Ingliston Farm
DRAWING TITLE:	Wind Turbine Elevation Drawings
DRAWING NO:	ING004
DOCUMENT SIZE:	A3
SCALE:	1:300
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



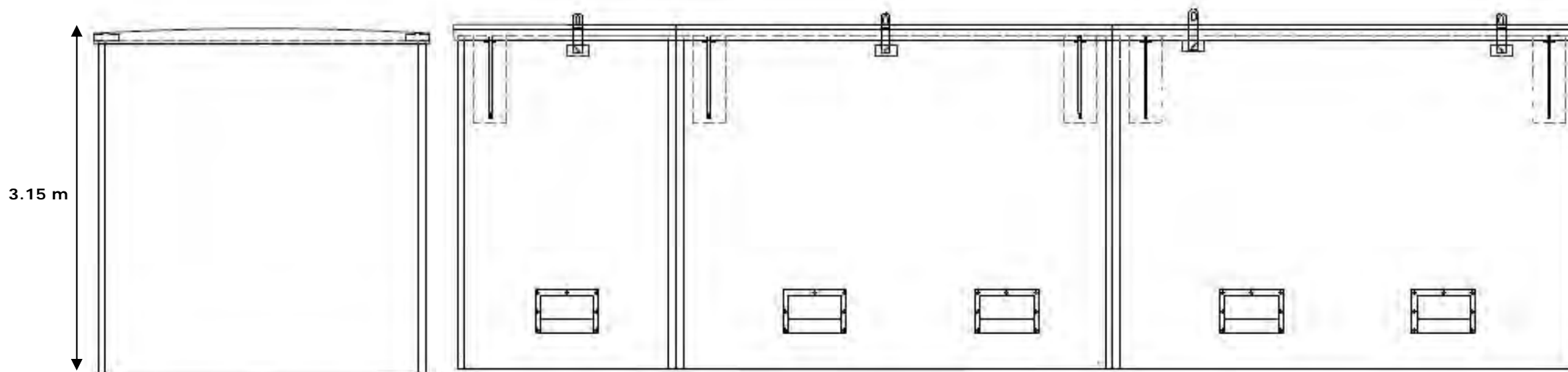
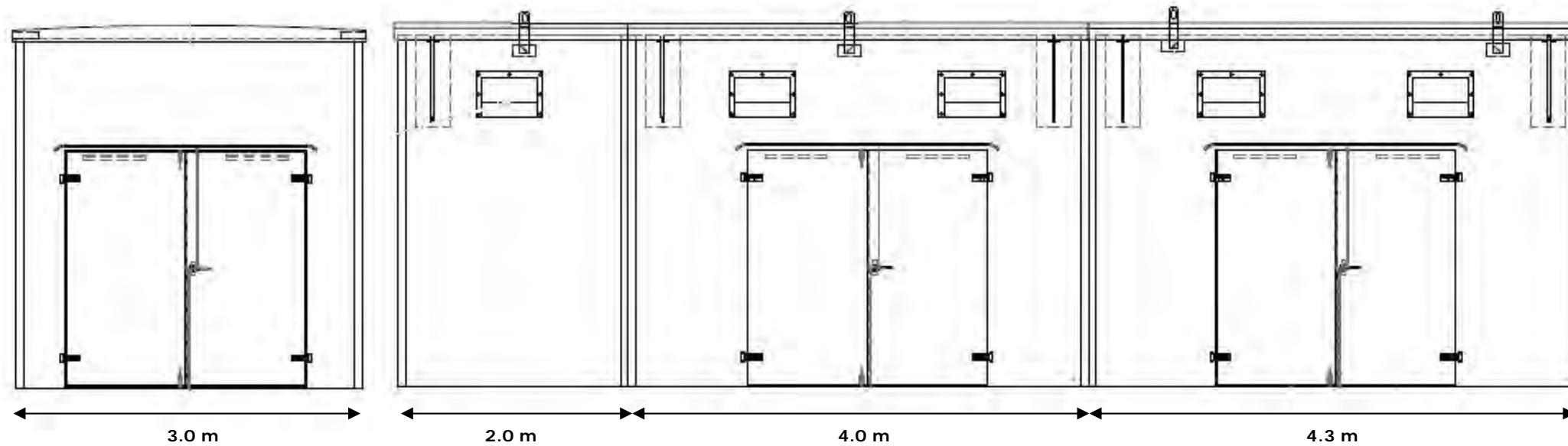
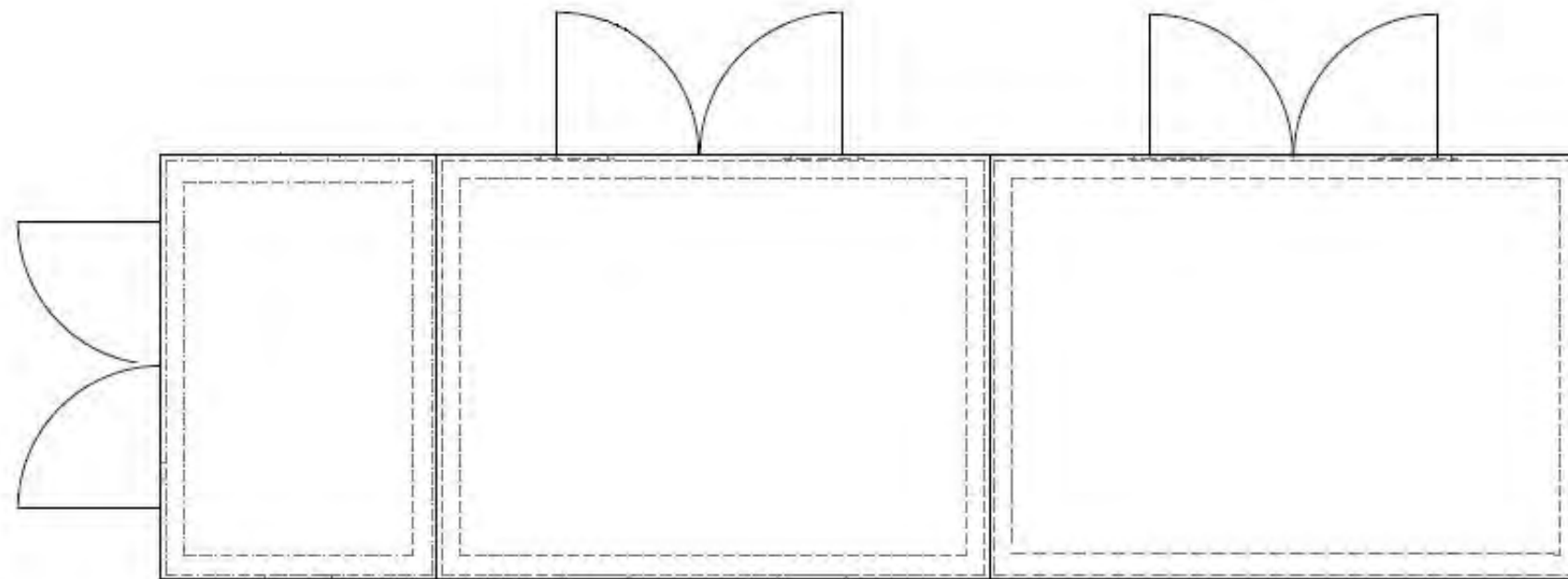
Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

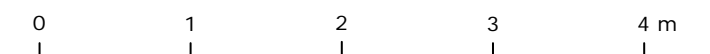
Notes

This drawing shows the elevation and floor plan of the external substation building, as required by Scottish and Southern Energy.

The building will house the transformer, switch gear and safety equipment. The building will be constructed from Glass Reinforced Plastic (GRP) and painted green.



PROJECT:	Ingliston Farm
DRAWING TITLE:	External Substation
DRAWING NO:	ING005
DOCUMENT SIZE:	A3
SCALE:	1:50
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

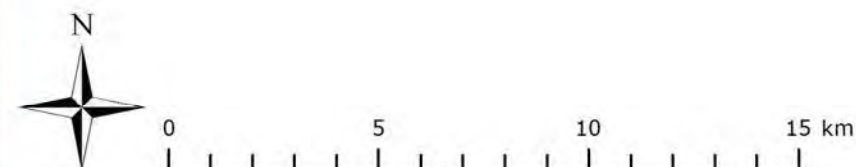
Notes

This map shows the designated landscape areas within 25km of the proposed site: country parks, gardens and designed landscapes, popular walking and cycling routes and local designated areas.
 Radii: 5, 10, 15, 20 and 25km

Legend

-  Turbine Location
-  Country Parks
-  Gardens and Landscapes Scotland
-  Fife Coastal Path
-  National Cycle Route 1
-  Cairngorm National Park
-  Local Designation Areas

PROJECT:	Ingliston Farm
DRAWING TITLE:	Designated Landscape Areas
DRAWING NO:	ING006
DOCUMENT SIZE:	A3
SCALE:	1: 180,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the Scheduled Monuments and A-Listed Buildings within 5km of the proposed wind turbine site.

Radius: 5km

Legend

- Turbine Location
- Scheduled Monuments
- ▲ A Listed Buildings

PROJECT:
Ingliston Farm

DRAWING TITLE:	Cultural Heritage
DRAWING NO:	ING007
DOCUMENT SIZE:	A3
SCALE:	1:40,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe





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 Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

This table provides a list of Scheduled Monuments and A-Listed Buildings shown in the Cultural Heritage drawing ING007.

ID	Scheduled Monuments	Easting	Northing	Distance from turbine (km)
1	Castleward, burial mound	334323	743859	0.5
2	Denoon Law, fort	335464	744402	1.1
3	Wester Denoon, burial mound	333787	743130	1.3
4	Hatton of Eassie, ring-ditch	335322	746180	2.1
5	Balkeerie, unenclosed settlement	332401	745167	2.2
6	Newmill, ring ditch	332559	745505	2.2
7	Carlunie Hill, cairn	336578	743261	2.4
8	Castleton Motte	333300	746618	2.6
9	Carlunie Hill, hut platforms	336907	743245	2.7
10	West Nevay, burial mound	332975	741941	2.8
11	Nevay Church, Kirkinch	331230	744111	3.2
12	Eassie Old Church and cross slab	335252	747453	3.3
13	Kinpurney Hill, fort	332250	741749	3.3
14	Cookston Farm, enclosure	333921	748079	3.8
15	Newton of Glamis, unenclosed settlement	337083	747110	3.9
16	Newton of Glamis, enclosure	337453	746780	3.9
17	Braideston, enclosures	331770	747402	4.1
18	Cardean, Roman camps	329954	745937	4.7
19	Glamis Manse, cross slab	338591	746865	4.9

ID	A - Listed Buildings	Easting	Northing	Distance from turbine (km)
a	Mains Of Rochelhill, Dovecot	337502	745142	3.2
b	Glamis, Kirkwynd, St Fergus's Church, Strathmore Aisle	338644	746855	4.9
c	Glamis Castle, Dovecot	338407	747286	5.0

PROJECT: Ingliston Farm

DRAWING TITLE: List of Cultural Heritage Sites
 DRAWING NO: ING008
 DOCUMENT SIZE: A3
 SCALE: n/a
 DATE: 27/08/2013
 DRAWING BY: Bojan Jevtic
 APPROVED BY: Andy Lowe

Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the various Landscape Character Areas within 25km of the proposed wind turbine site.

Radii: 5, 10, 15, 20 and 25km

Legend

- Turbine Location

PROJECT:

Ingliston Farm

DRAWING TITLE:	Landscape Character Type
DRAWING NO:	ING009
DOCUMENT SIZE:	A3
SCALE:	1:180,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

This map shows the Zone of Theoretical Visibility of the proposed wind turbine within 25km.

Radii: 5, 10, 15, 20 and 25km

Legend

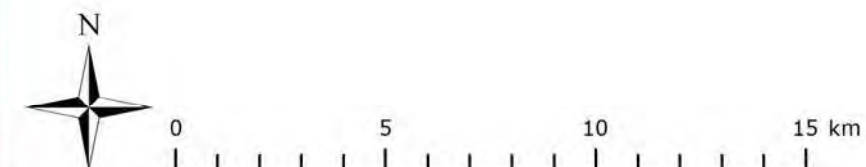
● Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE: ZTV
 DRAWING NO: ING010
 DOCUMENT SIZE: A3
 SCALE: 1:180,000
 DATE: 27/08/2013
 DRAWING BY: Bojan Jevtic
 APPROVED BY: Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed turbine Zone of Theoretical Visibility within 10km of the proposed site in a south east direction.

Radii: 5 and 10km

Legend

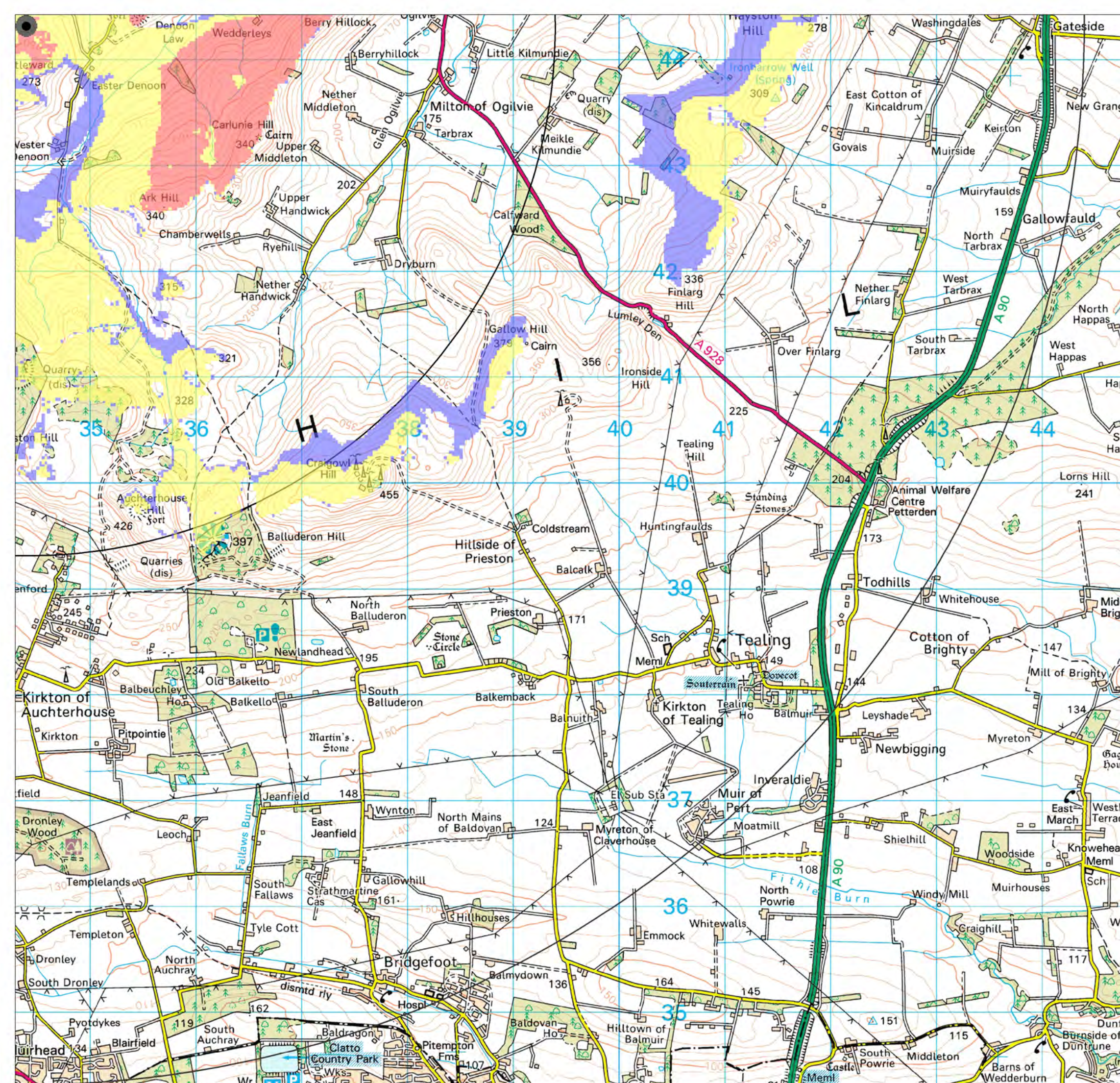
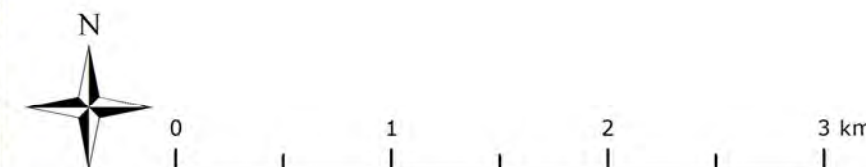
- Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: Ingliston Farm

DRAWING TITLE:	ZTV 10km South East
DRAWING NO:	ING011
DOCUMENT SIZE:	A3
SCALE:	1:35,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed turbine Zone of Theoretical Visibility within 10km of the proposed site in a north east direction.

Radii: 5 and 10km

Legend

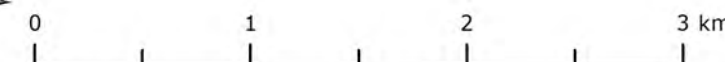
- Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE:	ZTV 10km North East
DRAWING NO:	ING012
DOCUMENT SIZE:	A3
SCALE:	1:35,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed turbine Zone of Theoretical Visibility within 10km of the proposed site in a north west direction.

Radii: 5 and 10km

Legend

- Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE:	ZTV 10km North West
DRAWING NO:	ING013
DOCUMENT SIZE:	A3
SCALE:	1:35,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed turbine Zone of Theoretical Visibility within 10km of the proposed site in a south west direction.

Radii: 5 and 10km

Legend

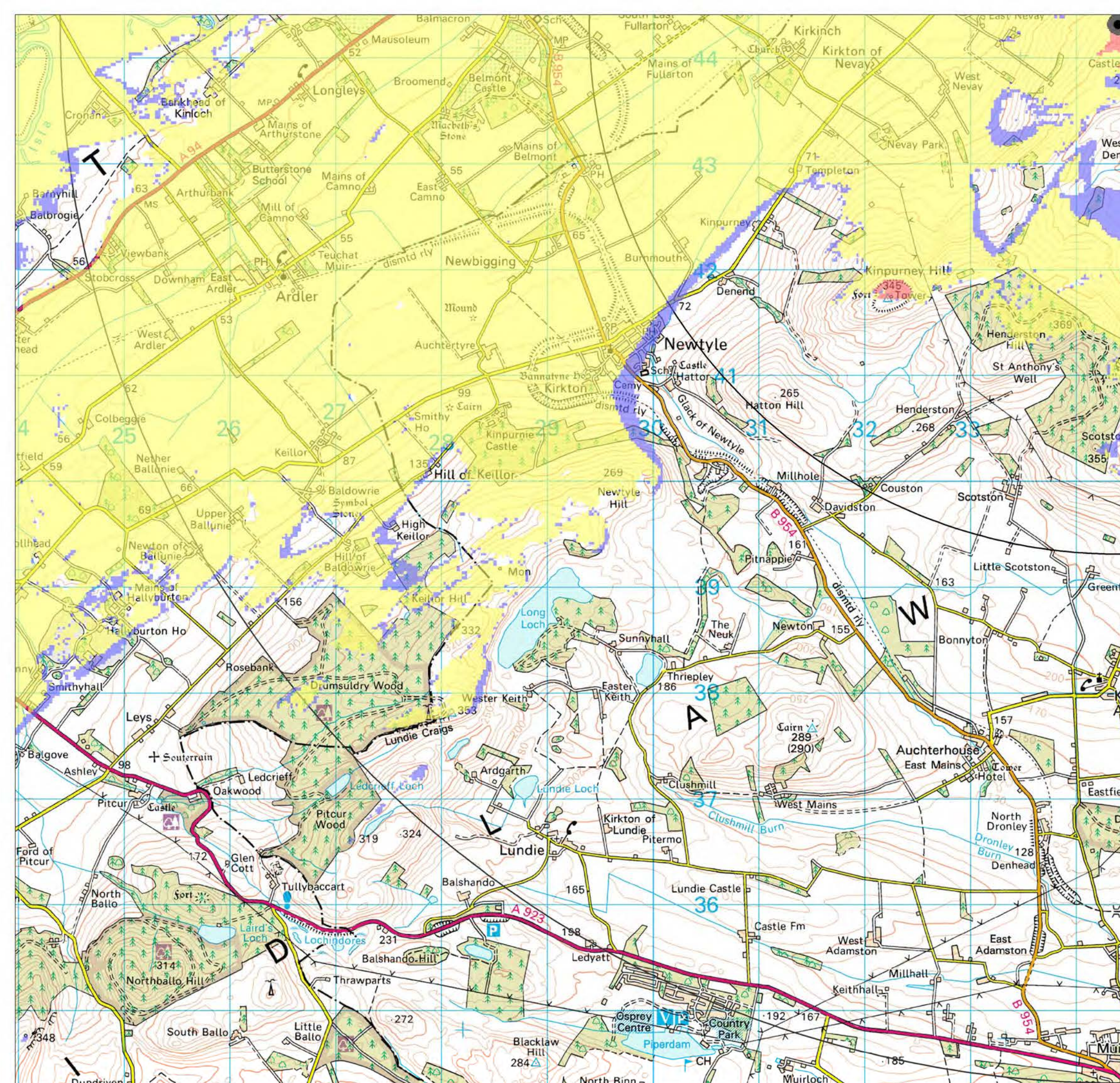
- Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE:	ZTV 10km South West
DRAWING NO:	ING014
DOCUMENT SIZE:	A3
SCALE:	1:35,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the designated landscape areas within 25km of the proposed site: country parks, gardens and designed landscapes, popular walking and cycling routes and local designated areas.
 Radii: 5, 10, 15, 20 and 25km

Legend

-  Turbine Location
-  Country Parks
-  Gardens and Landscapes Scotland
-  Fife Coastal Path
-  National Cycle Route 1
-  Cairngorm National Park
-  Local Designation Areas

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE:	Designated Landscapes and ZTV
DRAWING NO:	ING015
DOCUMENT SIZE:	A3
SCALE:	1:180,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the Scheduled Monuments and A-Listed Buildings within 5km of the proposed wind turbine site.

Radius: 5km

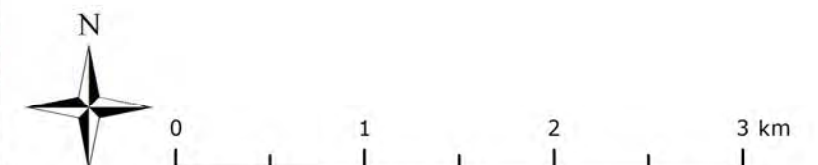
Legend

- Turbine Location
- Scheduled Monuments
- ▲ A Listed Buildings

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT:	Ingliston Farm
DRAWING TITLE:	Cultural Heritage and ZTV
DRAWING NO:	ING016
DOCUMENT SIZE:	A3
SCALE:	1:40,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe





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 Tel: +44 (0) 131 555 4745; Email: info@locogen.com
 Company Number: SC370060; VAT Number: 983 3836 77

Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

This table provides a list of Scheduled Monuments and A-Listed Buildings shown in the Cultural Heritage drawing ING016.

ID	Scheduled Monuments	Easting	Northing	Distance from turbine (km)
1	Castleward, burial mound	334323	743859	0.5
2	Denoon Law, fort	335464	744402	1.1
3	Wester Denoon, burial mound	333787	743130	1.3
4	Hatton of Eassie, ring-ditch	335322	746180	2.1
5	Balkeerie, unenclosed settlement	332401	745167	2.2
6	Newmill, ring ditch	332559	745505	2.2
7	Carlunie Hill, cairn	336578	743261	2.4
8	Castleton Motte	333300	746618	2.6
9	Carlunie Hill, hut platforms	336907	743245	2.7
10	West Nevay, burial mound	332975	741941	2.8
11	Nevay Church, Kirkinch	331230	744111	3.2
12	Eassie Old Church and cross slab	335252	747453	3.3
13	Kinpurney Hill, fort	332250	741749	3.3
14	Cookston Farm, enclosure	333921	748079	3.8
15	Newton of Glamis, unenclosed settlement	337083	747110	3.9
16	Newton of Glamis, enclosure	337453	746780	3.9
17	Braideston, enclosures	331770	747402	4.1
18	Cardean, Roman camps	329954	745937	4.7
19	Glamis Manse, cross slab	338591	746865	4.9

ID	A - Listed Buildings	Easting	Northing	Distance from turbine (km)
a	Mains Of Rochelhill, Dovecot	337502	745142	3.2
b	Glamis, Kirkwynd, St Fergus's Church, Strathmore Aisle	338644	746855	4.9
c	Glamis Castle, Dovecot	338407	747286	5.0

PROJECT: Ingliston Farm

DRAWING TITLE: List of Cultural Heritage Sites
 DRAWING NO: ING017
 DOCUMENT SIZE: A3
 SCALE: n/a
 DATE: 27/08/2013
 DRAWING BY: Bojan Jevtic
 APPROVED BY: Andy Lowe

Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the proposed wind turbine ZTV and Landscape Characters within 25km of the proposed wind turbine site.

Radii: 5, 10, 15, 20 and 25km

Legend

- Turbine Location

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL.

PROJECT:

Ingliston Farm

DRAWING TITLE:	Landscape Character Type and ZTV
DRAWING NO:	ING018
DOCUMENT SIZE:	A3
SCALE:	1:180,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative base plan around the proposed turbine location.

Radii: 10, 20, 30, 40, 50 and 60km

Legend

● Turbine Location

Cumulative Developments Status

● Approved

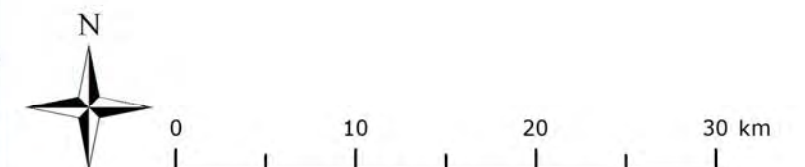
● Installed

● Pending

PROJECT:

Ingliston Farm

DRAWING TITLE:	Cumulative Base Plan
DRAWING NO:	ING019
DOCUMENT SIZE:	A3
SCALE:	1:420,000
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe





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 Tel: +44 (0) 131 555 4745; Email: info@locogen.com
 Company Number: SC370060; VAT Number: 983 3836 77

Project Description	
Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313
Notes	
Details of cumulative developments shown in the Cumulative Base Plan drawing ING019	

Label	Location	Turbine Number	Tip (m)	Status	Distance (km)
1	Arkhill Wind Farm	8	79.6	Installed	1.8
2	Henderston Quarry	1	66.0	Approved	3.3
3	Scotson	1	79.6	Installed	4.3
4	Davidston Farm	1	62.0	Pending	5.0
5	Govals Wind Farm	6	86.5	Pending	7.1
6	Frawney Wind Farm	5	80.0	Pending	7.3
7	North Leoch	1	45.6	Approved	7.4
8	West Mains Farmhouse	1	61.0	Approved	7.6
9	Balkemback Farm	2	46.5	Approved	7.7
10	Reedie Farm	2	46.9	Approved	7.8
11	House On The Hill Kettins	1	45.4	Approved	8.8
12	West Adamston Farm	1	47.5	Installed	8.9
13	Lundie Castle Farm	1	48.5	Pending	8.9
14	North Tarbax	1	45.9	Approved	9.1
15	House On The Hill	1	46.5	Approved	9.4
16	Tealing	1	86.5	Approved	9.5
17	Former Tealing Airfield	1	86.5	Pending	9.5
18	Dodd Hill Wind Farm	5	126.5	Pending (Appeal)	10.6
19	Loyal Farm	1	47.0	Pending	10.7
20	Wester Meathie Farm	2	46.6	Approved	11.6
21	Bamff Wind Farm	7	111.0	Pending (Appeal)	14.6
22	Greenhillock 1	1	45.9	Approved	15.2
23	Greenhillock 2	1	67.0	Pending	15.2
24	Drowndubbs Farm	2	46.5	Pending	15.3
25	Glenbran Farm	1	56.3	Pending	15.4
26	Michelin Tyres	2	120.0	Installed	15.4
27	Wester Derry Farm	1	45.0	Approved	15.5
28	Stotfaulds Farm	1	77.0	Pending	15.7
29	Gallow Hill	1	46.5	Pending	17.2
30	Outfield Farm Abernyte	1	40.0	Approved	17.3
31	Lochlair Farmhouse	1	47.0	Approved	17.4
32	Kalulu House	2	44.8	Pending	18.1
33	East Memus	1	86.5	Approved	18.2
34	White Top	1	86.5	Pending	18.6
35	Netheraird of Glasclune	1	67.0	Pending	19.1
36	Drumderg Wind Farm	16	107.0	Installed	19.1
37	Newmill Of Balgavies	1	66.5	Pending	19.3
38	West Mains Of Turin	1	49.0	Pending	19.5
39	New Downie Farm	1	54.0	Pending	19.8
40	Broom Farm	1	49.5	Pending	20.1
41	Newton Of Idvies Farm	1	47.5	Approved	20.3
42	Hill Of Lethendy Farm	1	66.6	Approved	20.6
43	Upper Balmachie Farm	1	77.0	Pending	21.0
44	Pitkenney Farm	1	74.0	Pending	21.9
45	The Corb Bridge	1	84.0	Pending (Appeal)	22.0
46	Wester Kilmany Farm	1	86.5	Pending	22.2
47	East Gormack Farm	1	66.7	Approved	22.2
48	Shandry Farm Rait	2	45.5	Approved	22.4
49	North Mains Of Conon-syth	1	66.7	Installed	22.8
50	Easter Logie	1	47.0	Pending	23.0
51	Pickerton	1	77.0	Approved	23.5
52	Parkconon Farm	1	45.0	Approved	23.5
53	Dubton Farm	1	77.0	Pending	23.9

Label	Location	Turbine Number	Tip (m)	Status	Distance (km)
54	Afflochie Farm	2	46.9	Approved	24.0
55	Cuthlie	1	77.0	Pending	24.3
56	Dunswood	1	77.0	Approved	25.0
57	Balnacake Farm	1	67.0	Pending	25.4
58	Newington Farm	1	41.5	Approved	25.6
59	Lordscairn Farm	1	45.7	Approved	25.7
60	Balhall Lodge 2	1	49.0	Pending	25.9
61	Balhall Lodge 1	1	47.5	Approved	26.2
62	Glen Trusta	2	46.9	Approved	26.4
63	Stewart Tower Farm	1	45.0	Approved	27.0
64	Nathro Hill Wind Farm	17	135.0	Pending	27.1
65	Pitbladdo Farm	1	51.0	Approved	27.3
66	Hatton Mill Farm	1	77.0	Pending (Appeal)	28.0
67	Lumbennie Hill	1	84.0	Approved	28.4
68	Westhall Cupar Fife	1	45.5	Installed	29.4
69	Balrownie Farm	2	46.5	Approved	30.7
70	Easter Pitscottie Farm	1	48.7	Pending	31.8
71	East Pitforthie Farm	1	47.0	Approved	32.2
72	Auchenreoch Farm	1	45.9	Approved	32.7
73	Lower Melville Wood	1	85.0	Pending	32.7
74	Renmure Farm	1	77.0	Pending	32.9
75	Wilton Farm	2	74.0	Pending	33.1
76	North Callange Farm	1	47.0	Pending (Appeal)	33.8
77	Arrat Farm	2	46.0	Approved	33.9
78	Whitefield Of Dun Farm	1	67.0	Approved	34.6
79	Ethie Barns Farm	1	45.0	Pending	34.6
80	Demperston Farmhouse	1	54.0	Pending	35.1
81	Hill Of Stracathro	1	79.6	Approved	35.2
82	Crossgates Cottages	1	49.0	Pending	35.5
83	Griffin Wind Farm	68	130.5	Approved	37.4
84	Lochelbank Wind Farm	12	86.5	Installed	37.8
85	Lingo Farm Lingo Wind Farm	5	100.0	Pending (Appeal)	38.2
86	Steelstrath Farm	1	84.0	Pending	38.5
87	Moss Side of Esslie	1	45.5	Approved	39.6
88	South Cassingray Farm	1	50.0	Pending	39.8
89	Lacesston Farm	1	48.0	Installed	40.0
90	Gossesslie Farm	1	47.5	Approved	40.2
91	Carriston Farm	1	56.7	Pending	40.2
92	South Baldutho Farm	1	47.5	Approved	40.7
93	East Blair Farm	2	45.5	Pending	41.3
94	Cuthill Towers Farm	1	40.0	Approved	41.5
95	Drumside	1	46.0	Pending	42.0
96	Temple Hill	1	84.0	Pending	42.0
97	Stone of Morphee Cottage	1	77.0	Pending	42.0
98	Airdrie Farm	1	74.0	Approved	42.0
99	Brigton Farm	1	81.0	Approved	42.9
100	Pitbeadlie Farm	1	76.0	Pending (Appeal)	43.3
101	Dykelands	2	40.2	Approved	43.5
102	EFFC	1	81.0	Pending	44.5
103	Hydrogen Office - Methil Docks	1	81.0	Installed	44.8
104	Kirkmay Farm	1	45.0	Approved	44.8
105	Balgonie	1	86.5	Pending	44.8
106	Criggie Farmhouse	2	45.5	Approved	44.9

Label	Location	Turbine Number	Tip (m)	Status	Distance (km)
107	Cornceres Farm	1	53.7	Pending	45.1
108	Windy Corner	1	63.5	Approved	45.4
109	Earlseat Wind Farm	8	120.5	Approved	45.9
110	Methil Offshore Wind Demonstration Project	1	179.0	Approved	46.0
111	Mains of Woodstone	1	80.0	Pending (Appeal)	46.4
112	South Bradieston	1	66.0	Pending	46.7
113	Skeddoway Farm 2	1	126.0	Pending	47.2
114	Skeddoway Farm 1	1	110.0	Approved	47.2
115	Noble Foods Thornton	1	110.0	Approved	47.3
116	Westfield Wind Farm	5	110.0	Installed	47.4
117	West Cairnbeg	1	77.0	Pending	47.6
118	Calliachar Wind Farm	7	110.0	Pending	48.6
119	Calliachar Wind Farm Amulree	14	109.0	Approved	49.0
120	Redford Farm	1	53.9	Approved	49.2
121	Inchcape Wind Farm - Offshore	213	215.0	Pending	49.6
122	Tullo Wind Farm	7	100.0	Approved	49.7
123	Paul Matthew Hill	1	99.5	Pending (Appeal)	49.7
124	South Kilduff	2	45.0	Pending	50.7
125	Thorntonhill	1	45.5	Pending	51.6
126	Greenknowes Wind Farm	18		Installed	51.7
127	Denside	3	92.5	Pending	51.9
128	Dundonald	1	99.5	Pending	52.2
129	Bankhead Farm	2	47.0	Approved	52.2
130	Herscha Hill Extension	2	79.0	Pending	53.0
131	Herscha Hill Cluster	3	79.6	Pending	53.2
132	Clentrie Farm (Gevens Wind Cluster)	3	99.5	Approved	53.7
133	Craig Garbil	1	79.0	Pending (Appeal)	53.9
134	Peattie	1	67.0	Pending	54.1
135	Chapleton Farm	1	49.0	Pending	54.6
136	Little Raith Wind Farm	9	126.0	Installed	54.6
137	Dendoldrum Farm	1	45.7	Approved	54.8
138	Droop Hill	2	100.0	Approved	55.5
139	Wairds of Alpity	1	79.0	Approved	55.8
140	Balmacnaughton Remony	2	46.6	Approved	55.9
141	Glenhead Farm	2	45.0	Pending	56.1
142	Cleish Hills Wind Farm	5	110.0	Pending	56.1
143	Pitkinnie Farm	2	45.0	Approved	56.4
144	Chemical Works	2	126.5	Pending	57.1
145	Chemical Works Moss-morran	2	100.0	Approved	57.2
146	Balbie Farm	1	74.0	Pending	57.3
147	Jacksbank	3	100.0	Approved	57.4
148	Kirkton Farm Extension	1	77.0	Pending	57.4
149	Lathalmond Farm	1	45.9	Pending	57.5
150	Barnhill Farm Powmill	2	47.0	Pending	57.6
151	St John's Hill Wind Farm	9	80.0	Approved	57.7
152	Goathill Quarry	1	100.0	Approved	57.7
153	Kingdom of Fife Community Wind Park	4	125.0	Pending	58.3
154	Shampher Cottage	1	40.0	Approved	58.4
155	Wester Bucklyvie	1	45.7	Approved	58.9
156	Glendevon Reservoirs	2	102.0	Approved	59.7
157	Burnfoot Hill Wind Farm	13	102.0	Installed	60.0

PROJECT:	Ingliston Farm
DRAWING TITLE:	Cumulative Base Plan List
DRAWING NO:	ING020
DOCUMENT SIZE:	A3
SCALE:	n/a
DATE:	27/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe

Project Description

Number of Turbine(s):	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the operational Arkhill development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

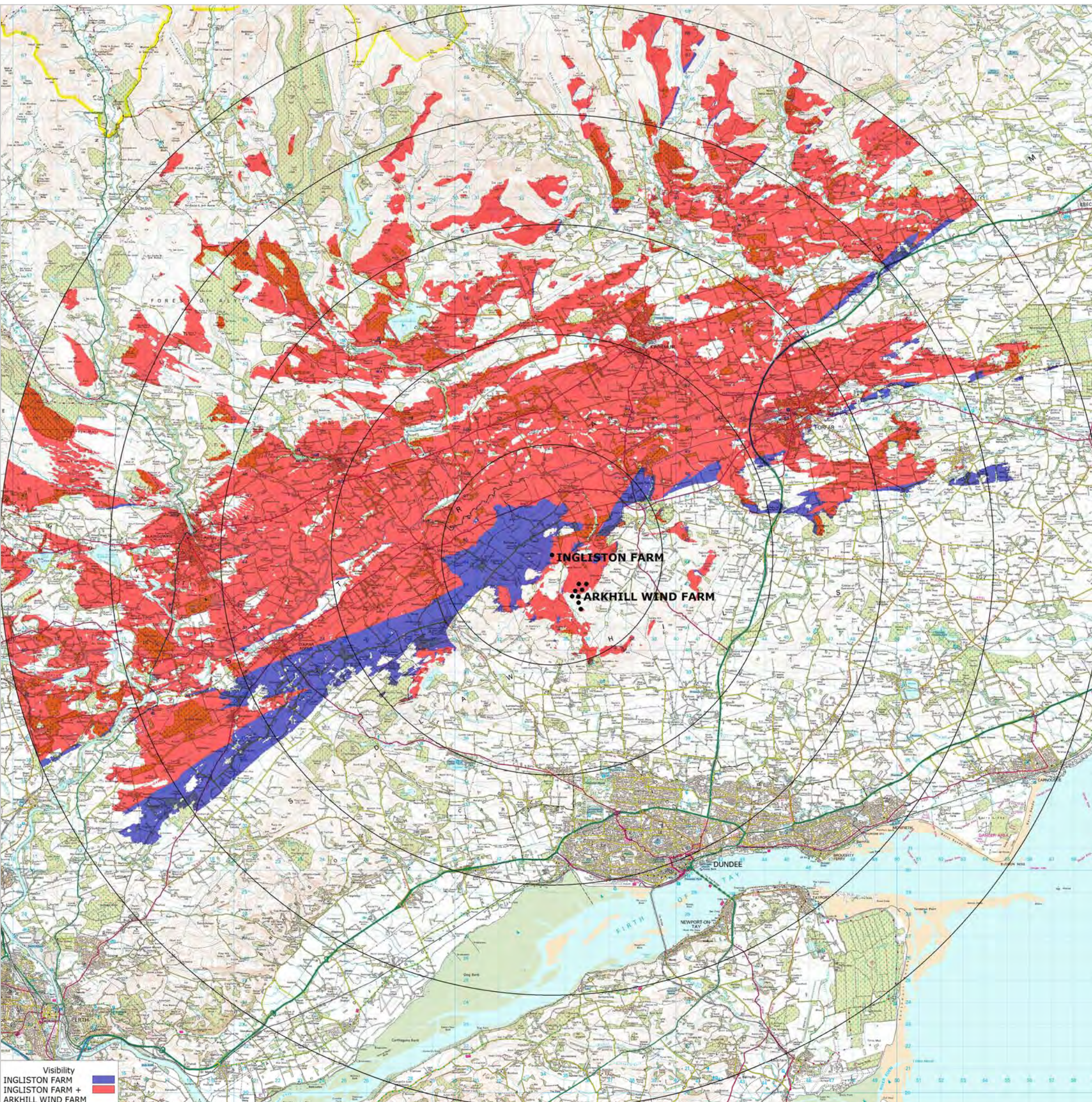
- Blue: Only Ingliston Farm turbine visible
- Red: At least the nacelle of the Ingliston Farm turbine and the Arkhill Wind Farm turbines will be visible

Arkhill Wind Farm details

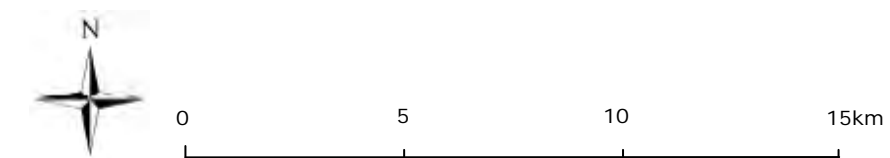
No of turbines:	8
Distance from Ingliston Farm:	1.8km
Height to blade tip:	79.6m
Status:	Operational

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Arkhill Wind Farm
DRAWING NO:	ING021
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 ARKHILL WIND FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved Henderston Quarry development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

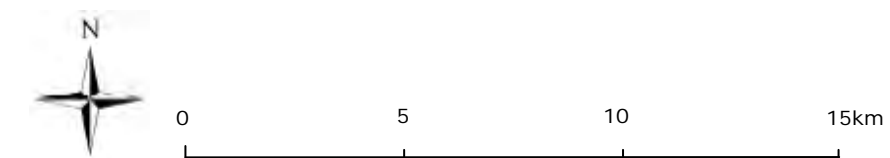
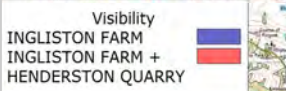
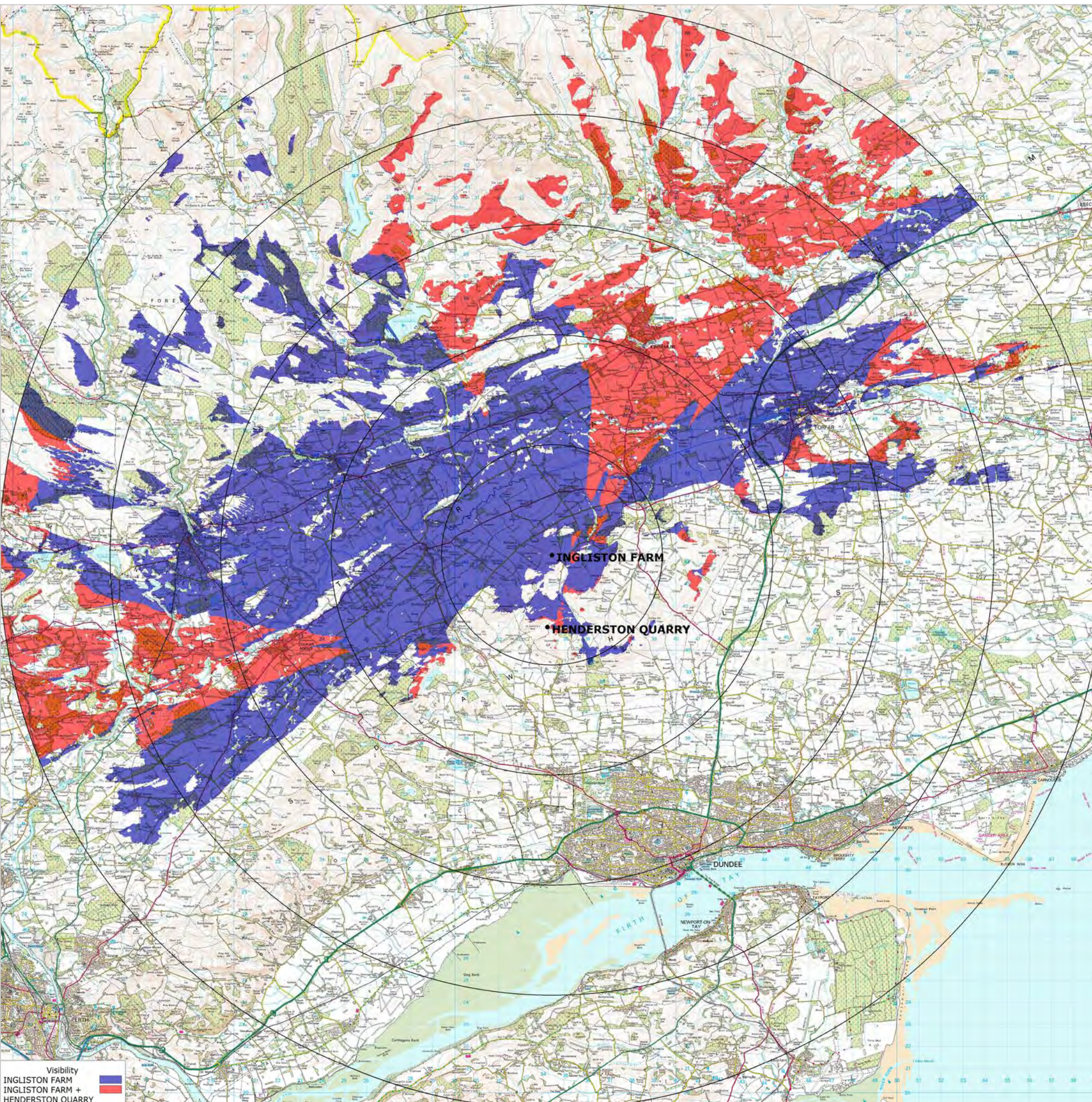
Red: At least the nacelle of the Ingliston Farm turbine and the Henderston Quarry turbine will be visible

Henderston Quarry details

No of turbines:	1
Distance from Ingliston Farm:	3.3km
Height to blade tip:	66.0m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Henderston Quarry
DRAWING NO:	ING022
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the operational Scotson development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

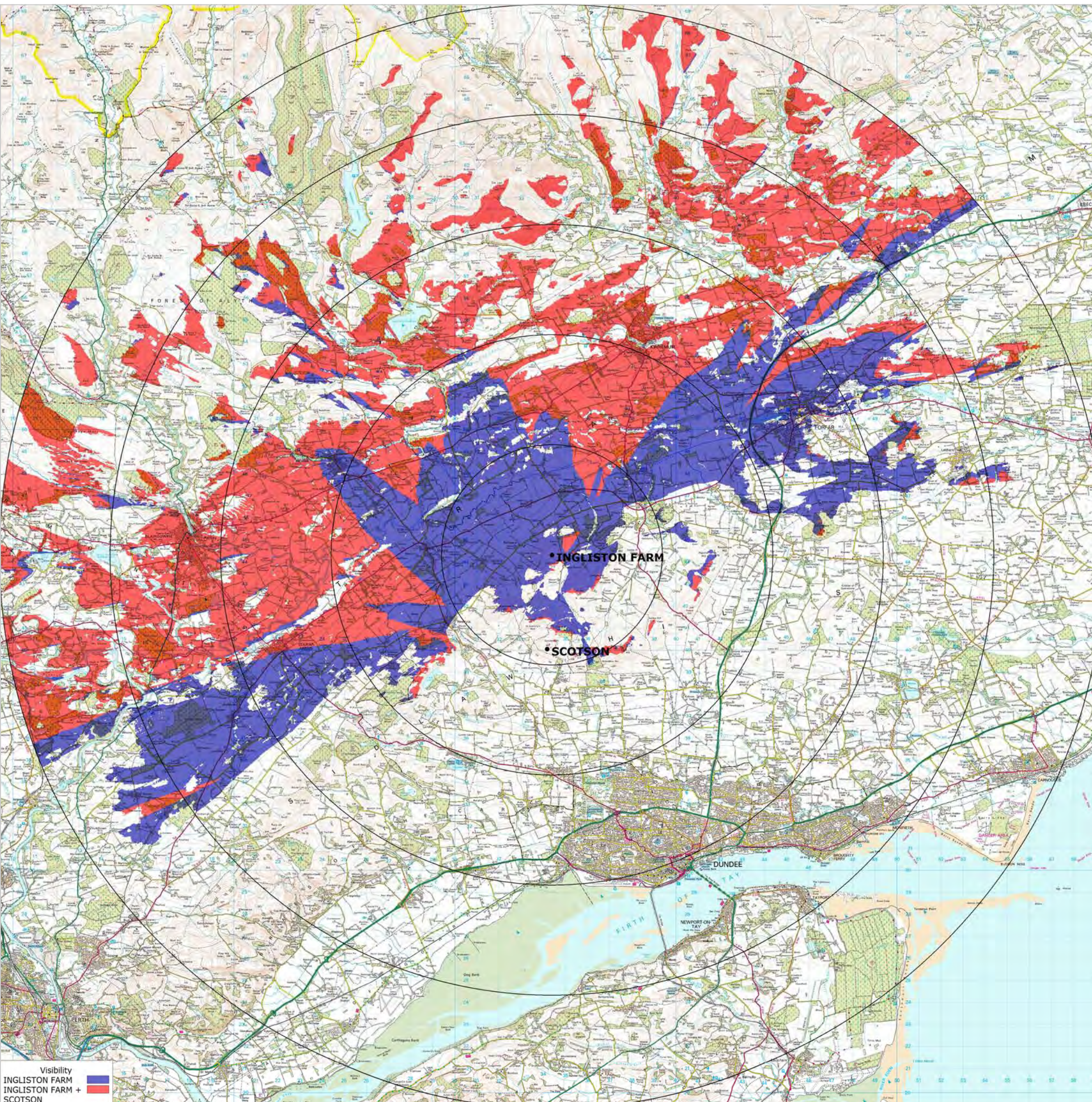
Red: At least the nacelle of the Ingliston Farm turbine and the Scotson turbine will be visible

Scotson details

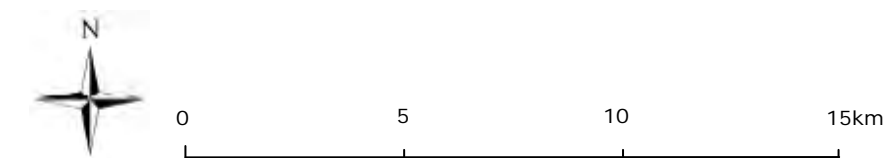
No of turbines:	1
Distance from Ingliston Farm:	4.3km
Height to blade tip:	79.6m
Status:	Operational

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Scotson
DRAWING NO:	ING023
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 SCOTSON



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the proposed Davidston Farm development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

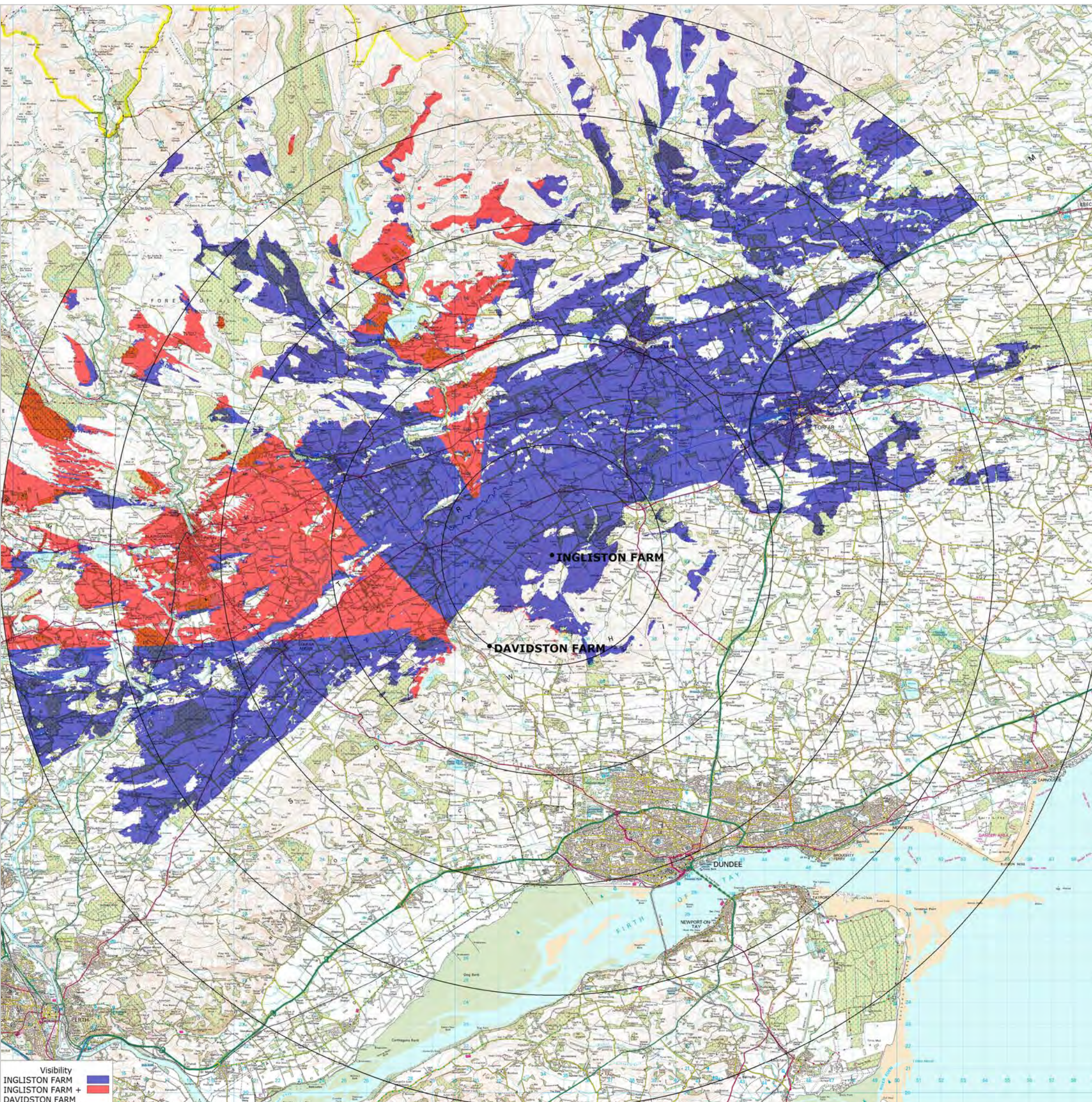
Red: At least the nacelle of the Ingliston Farm turbine and the Davidston Farm turbine will be visible

Davidston Farm details

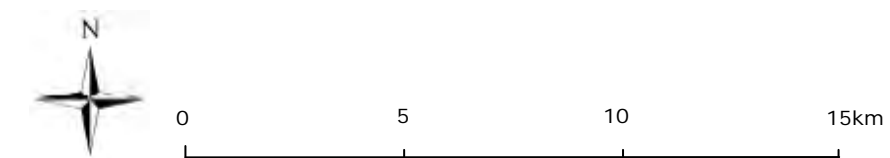
No of turbines:	1
Distance from Ingliston Farm:	5.0km
Height to blade tip:	62.0m
Status:	Proposed

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Davidston Farm
DRAWING NO:	ING024
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 DAVIDSTON FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the proposed Govals development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

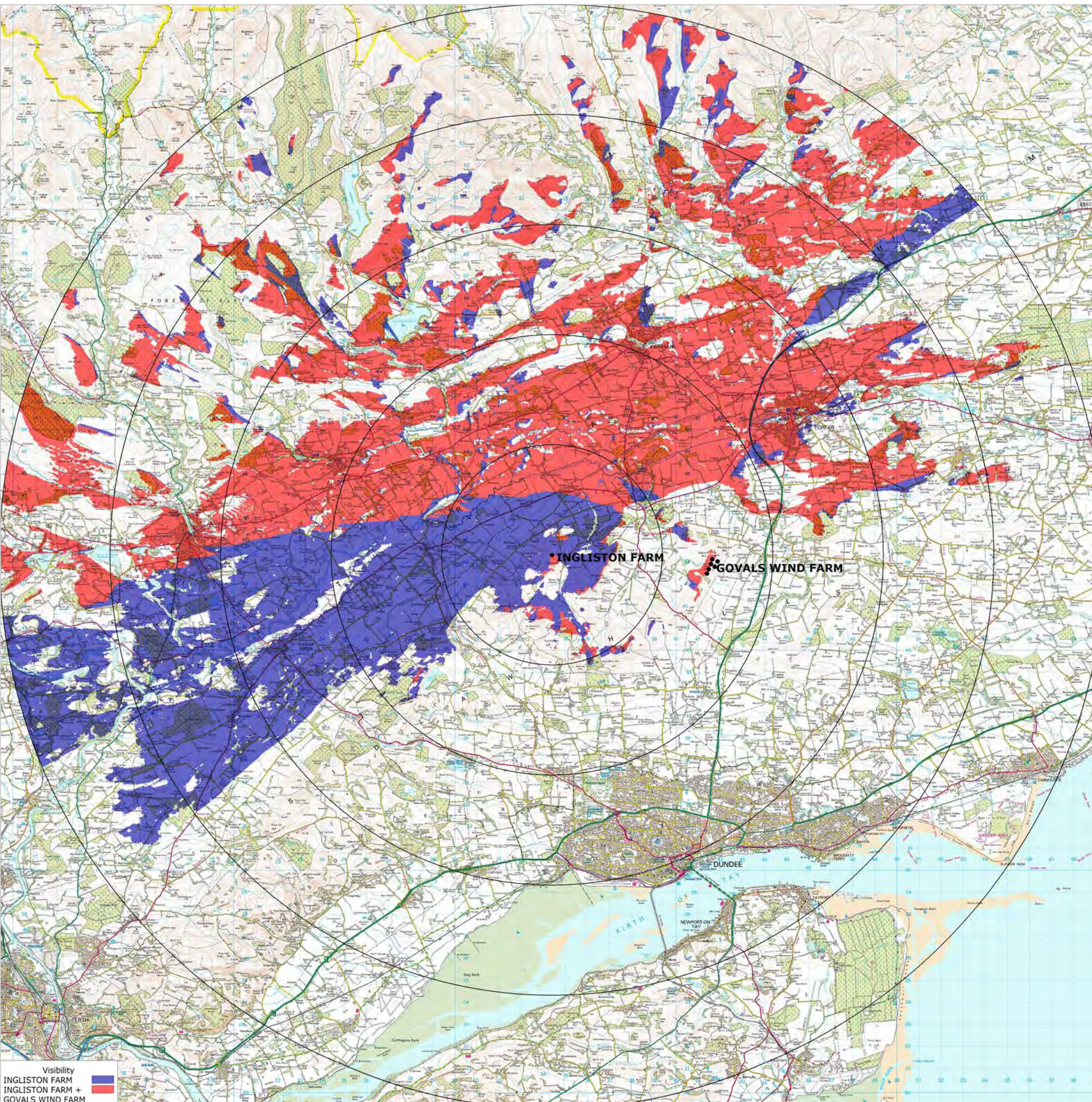
Red: At least the nacelle of the Ingliston Farm turbine and the Govals Wind Farm turbines will be visible

Govals Wind Farm details

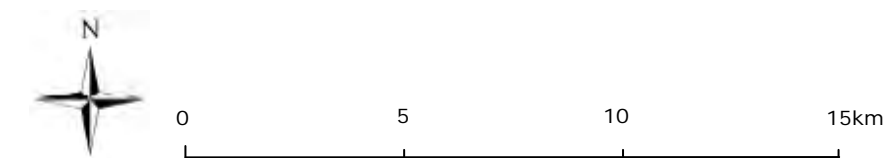
No of turbines:	6
Distance from Ingliston Farm:	7.1km
Height to blade tip:	86.5m
Status:	Proposed

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Govals Wind Farm
DRAWING NO:	ING025
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 GOVALS WIND FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the proposed Frawney development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

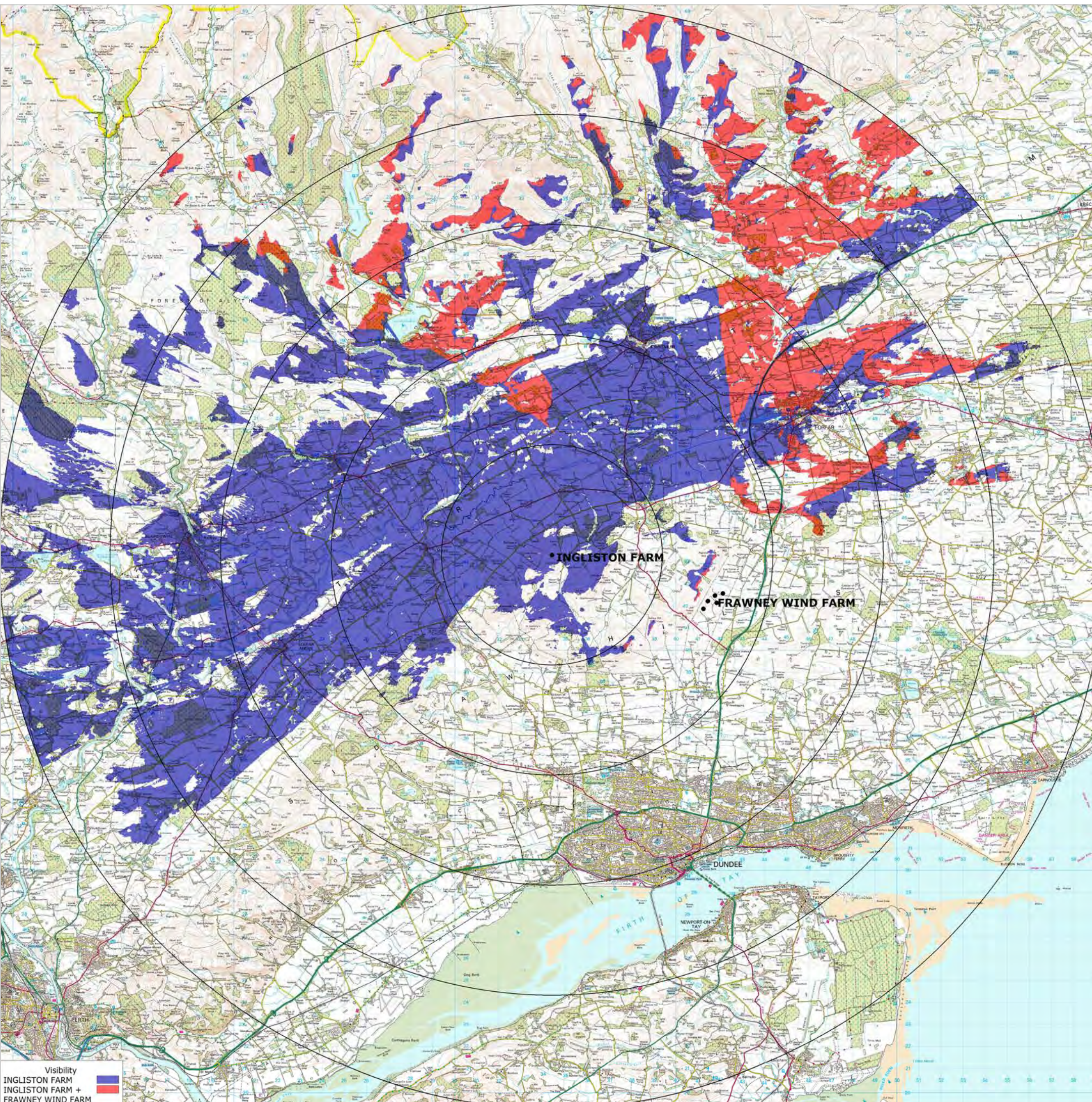
Red: At least the nacelle of the Ingliston Farm turbine and the Frawney Wind Farm turbines will be visible

Frawney Wind Farm details

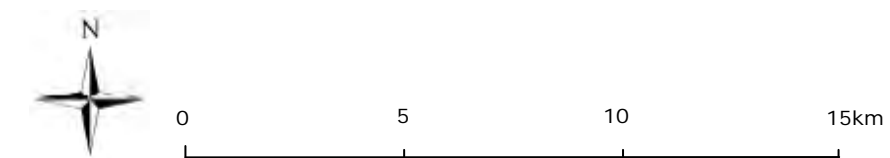
No of turbines:	5
Distance from Ingliston Farm:	7.3km
Height to blade tip:	80.0m
Status:	Proposed

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Frawney Wind Farm
DRAWING NO:	ING026
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 FRAWNEY WIND FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved North Leoch development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

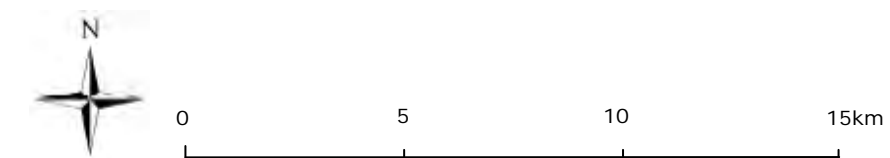
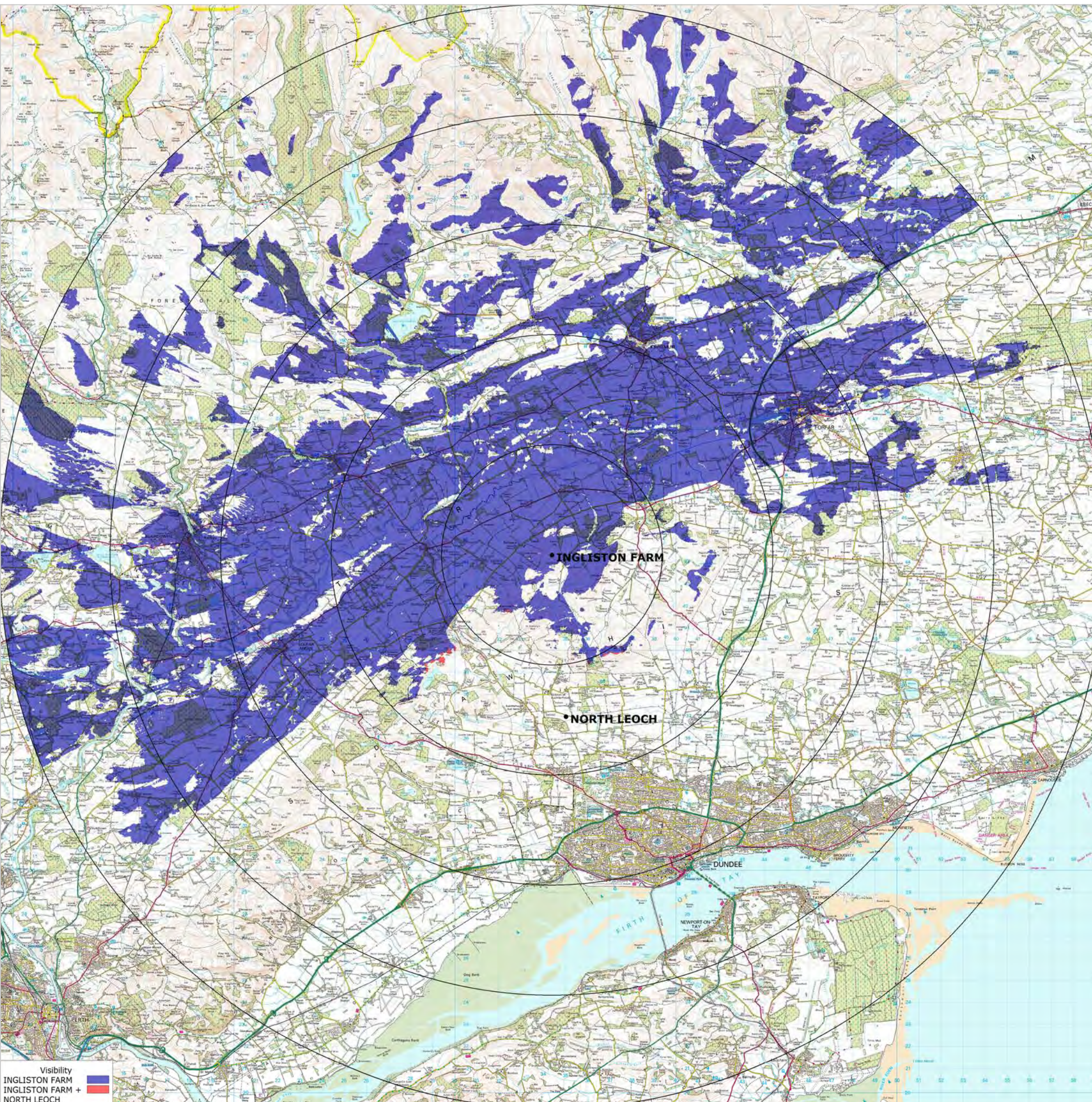
Red: At least the nacelle of the Ingliston Farm turbine and the North Leoch turbine will be visible

North Leoch details

No of turbines:	1
Distance from Ingliston Farm:	7.4km
Height to blade tip:	45.6m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—North Leoch
DRAWING NO:	ING027
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved West Mains Farmhouse development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

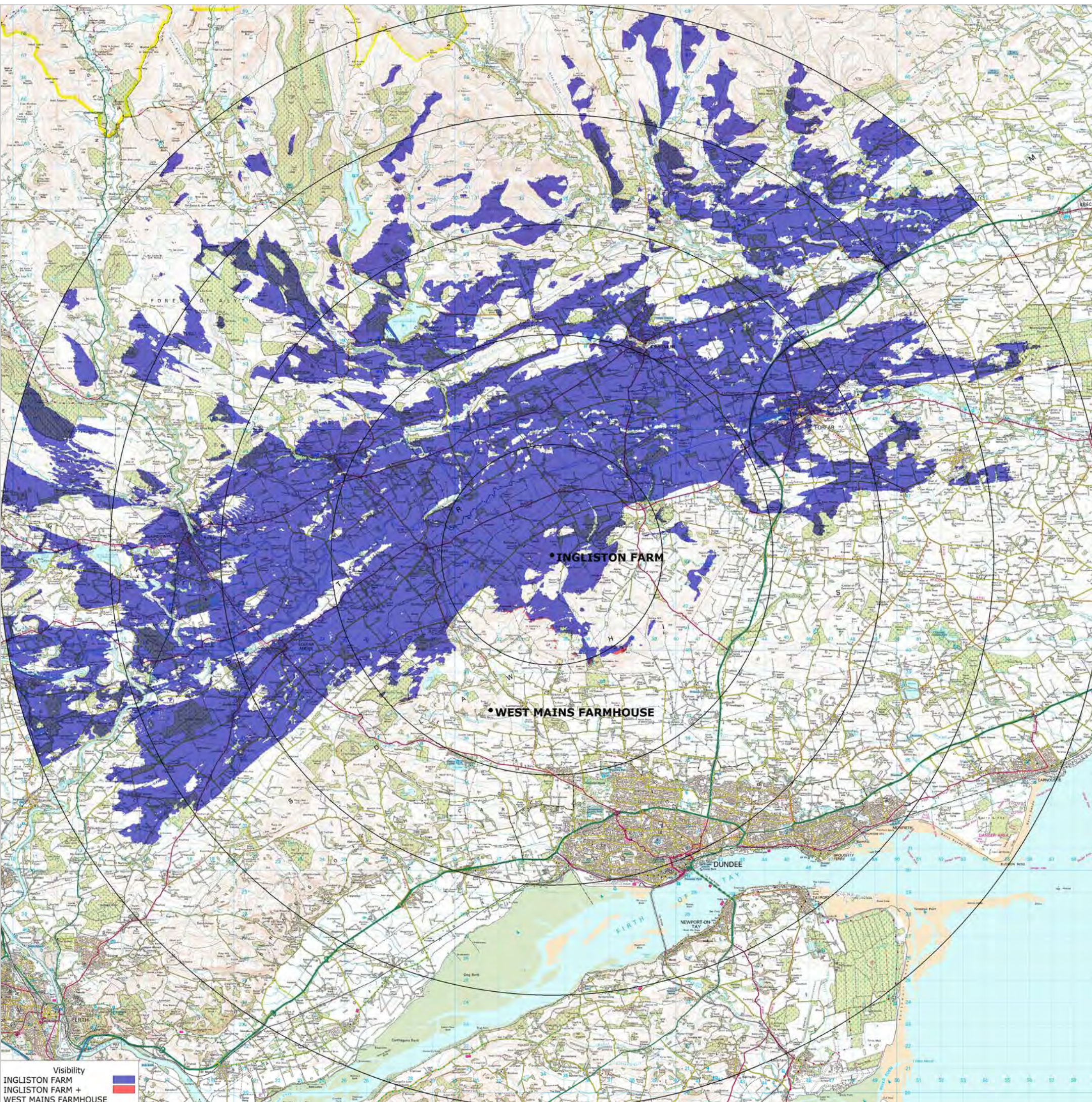
Blue: Only Ingliston Farm turbine visible

Red: At least the nacelle of the Ingliston Farm turbine and the West Mains Farmhouse turbine will be visible

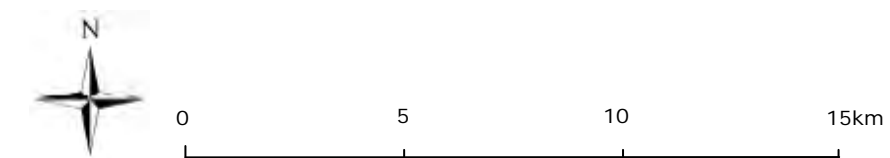
West Mains Farmhouse details

No of turbines:	1
Distance from Ingliston Farm:	7.6km
Height to blade tip:	61.0m
Status:	Approved

PROJECT:	Ingliston Farm
DRAWING TITLE:	Cumulative ZTV—West Mains Farmhouse
DRAWING NO:	ING028
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 WEST MAINS FARMHOUSE



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved Balkemback Farm development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

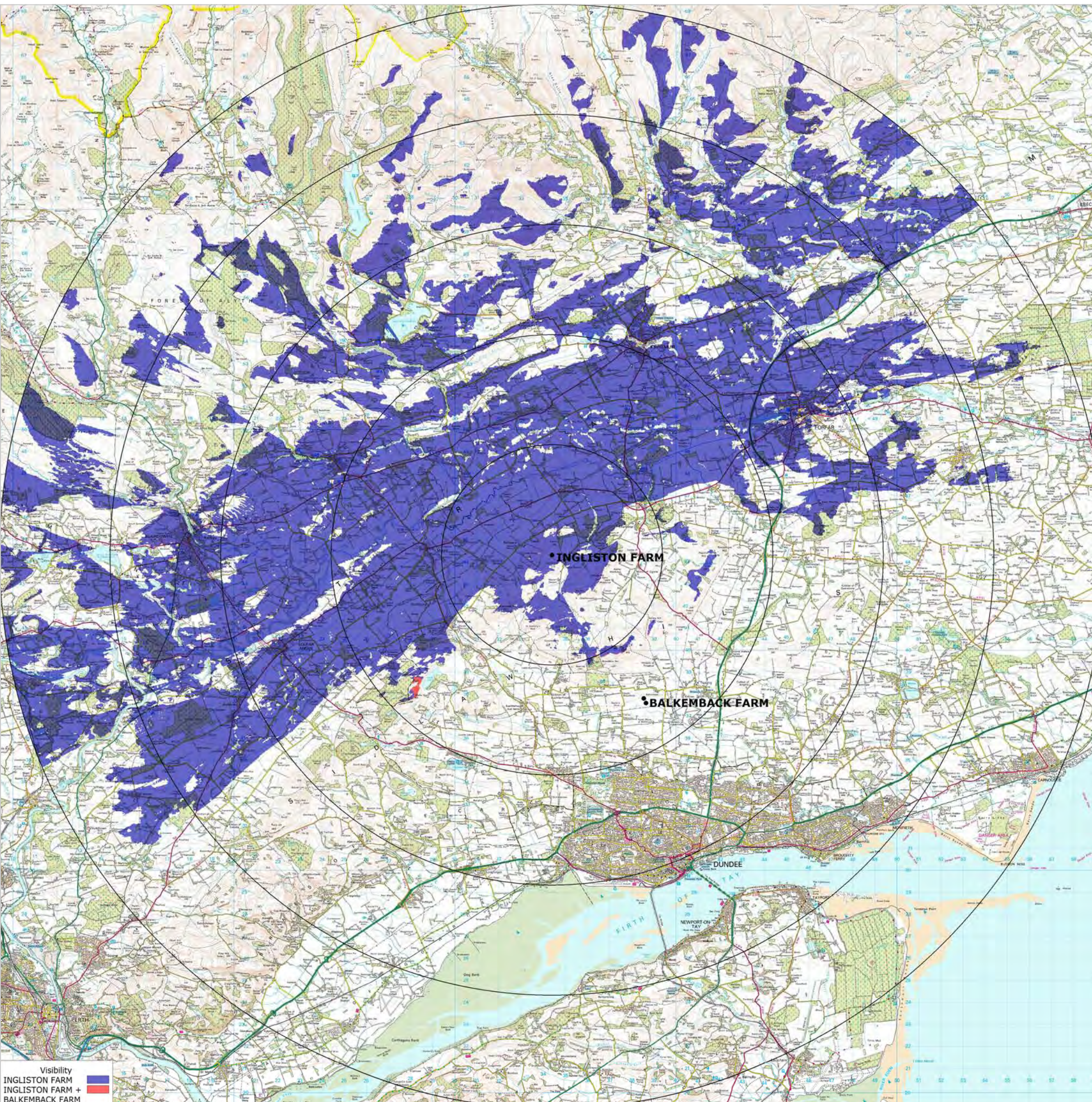
Red: At least the nacelle of the Ingliston Farm turbine and the Balkemback Farm turbines will be visible

Balkemback Farm details

No of turbines:	2
Distance from Ingliston Farm:	7.7km
Height to blade tip:	46.5m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Balkemback Farm
DRAWING NO:	ING029
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 BALKEMBACK FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved Reedie Farm development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

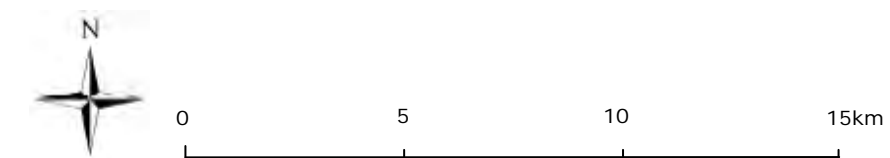
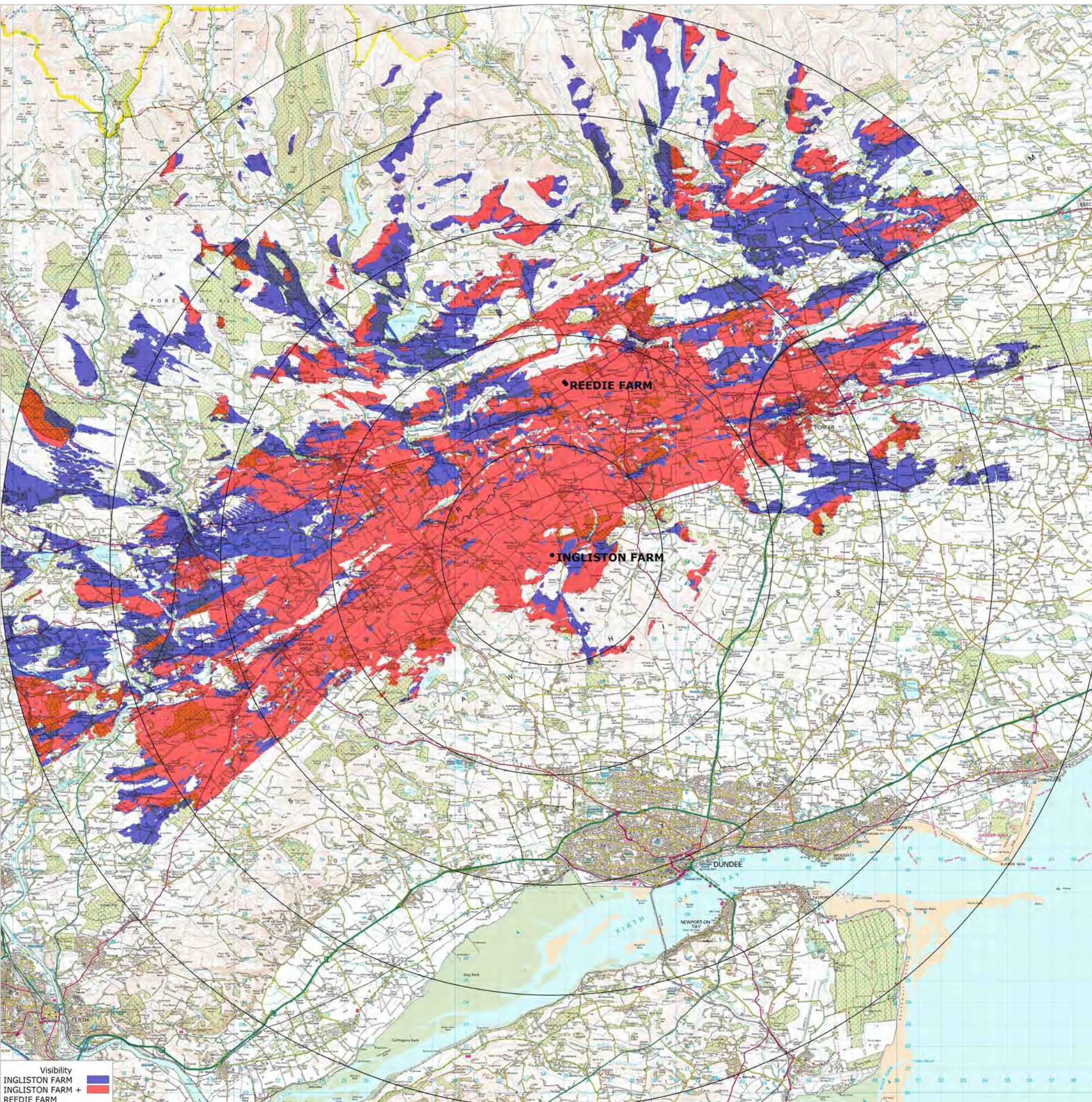
Red: At least the nacelle of the Ingliston Farm turbine and the Reedie Farm turbines will be visible

Reedie Farm details

No of turbines:	2
Distance from Ingliston Farm:	7.8km
Height to blade tip:	46.9m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Reedie Farm
DRAWING NO:	ING030
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved House On The Hill Kettins development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

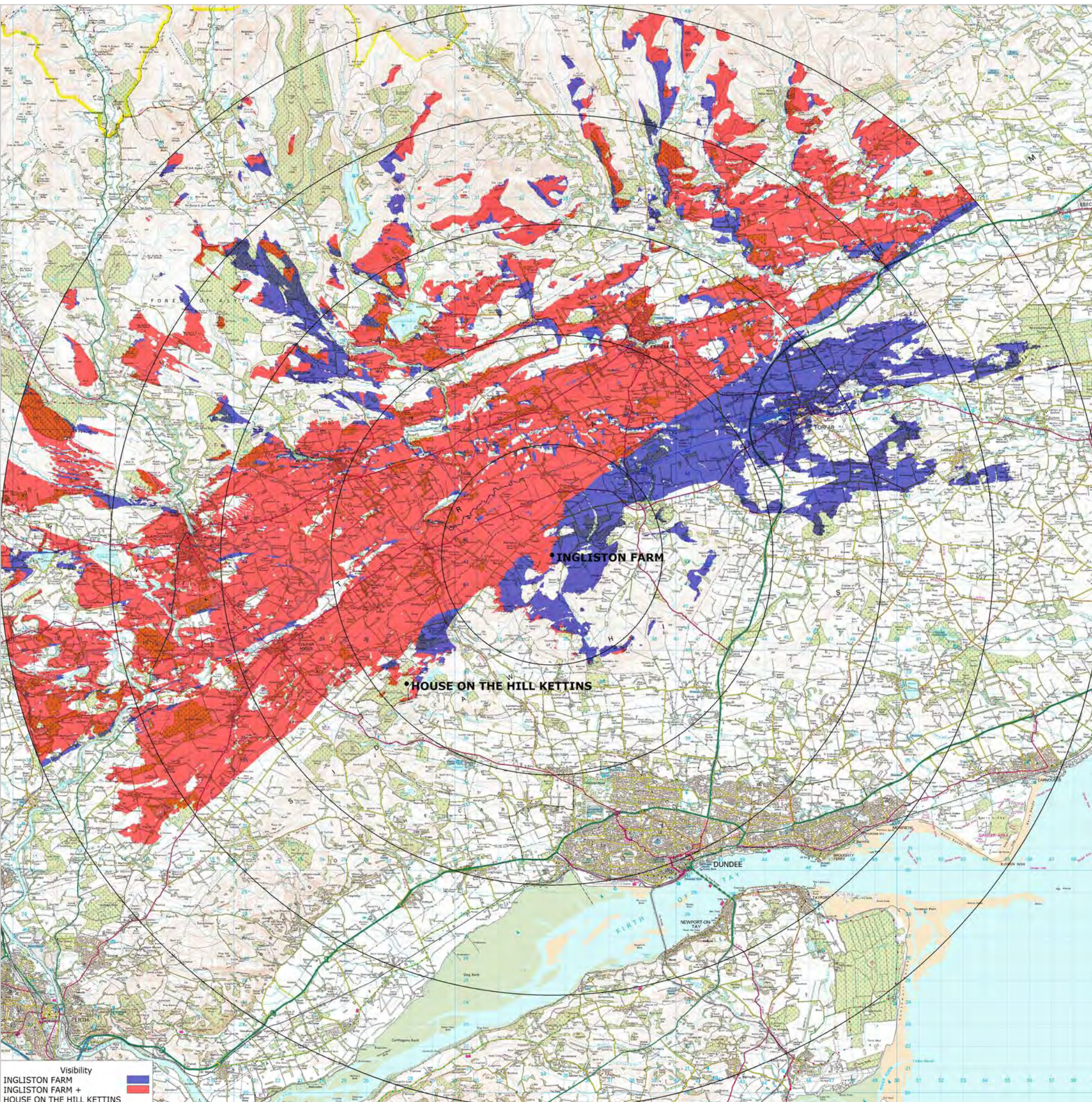
Red: At least the nacelle of the Ingliston Farm turbine and the House On The Hill Kettins turbine will be visible

House On The Hill Kettins details


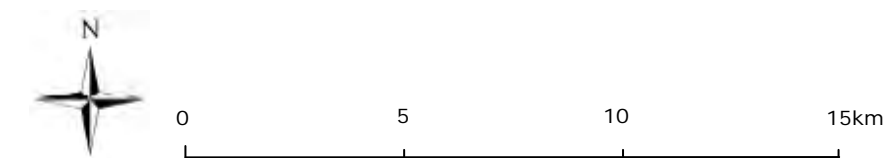
No of turbines:	1
Distance from Ingliston Farm:	8.8km
Height to blade tip:	45.4m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—House On The Hill Kettins
DRAWING NO:	ING031
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 HOUSE ON THE HILL KETTINS

Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the operational West Adamston Farm development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

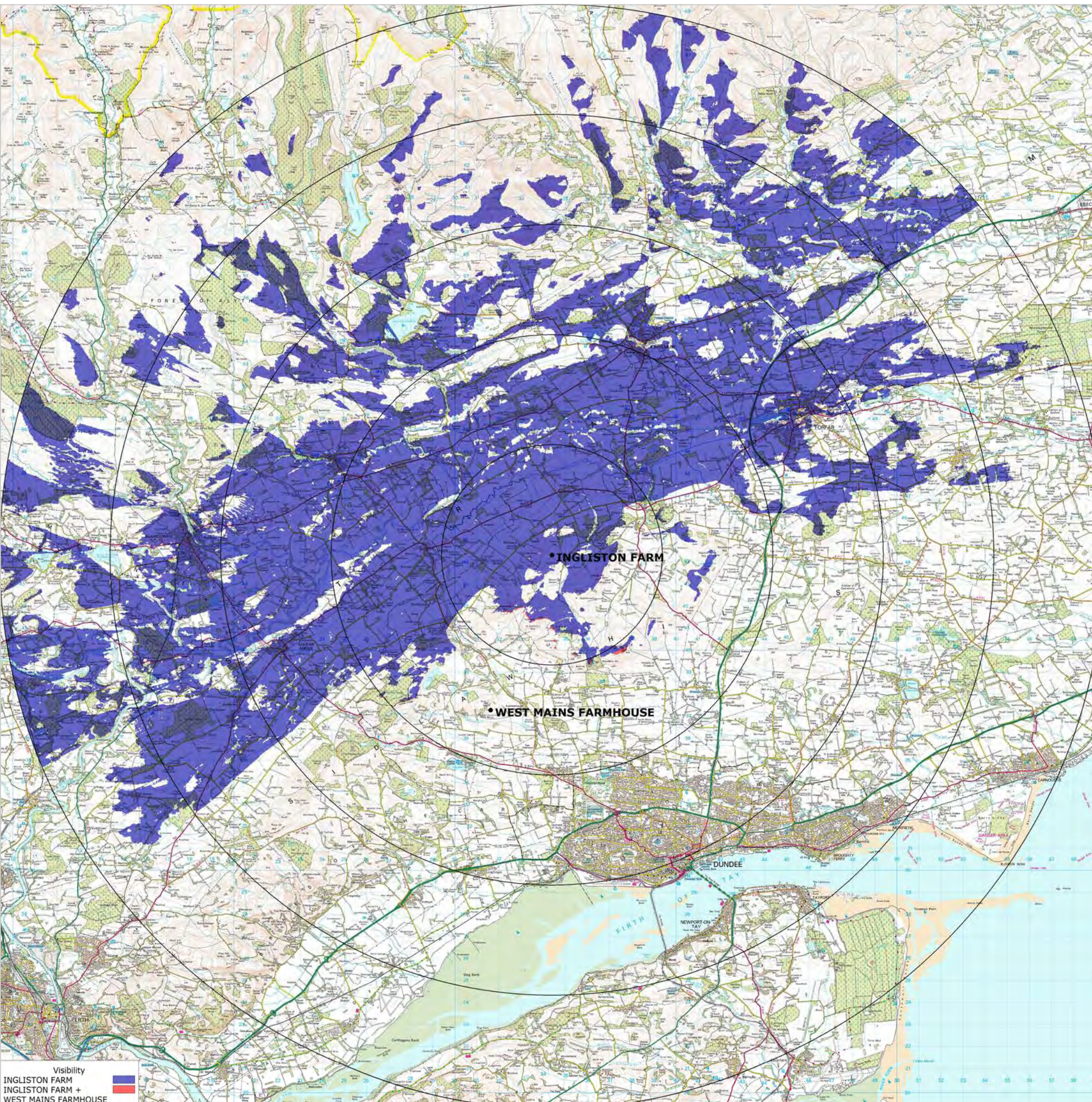
Red: At least the nacelle of the Ingliston Farm turbine and the West Adamston Farm turbine will be visible

West Adamston Farm details

No of turbines:	1
Distance from Ingliston Farm:	8.9km
Height to blade tip:	47.5m
Status:	Operational

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—West Adamston Farm
DRAWING NO:	ING032
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 WEST MAINS FARMHOUSE



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the proposed Lundie Castle Farm development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

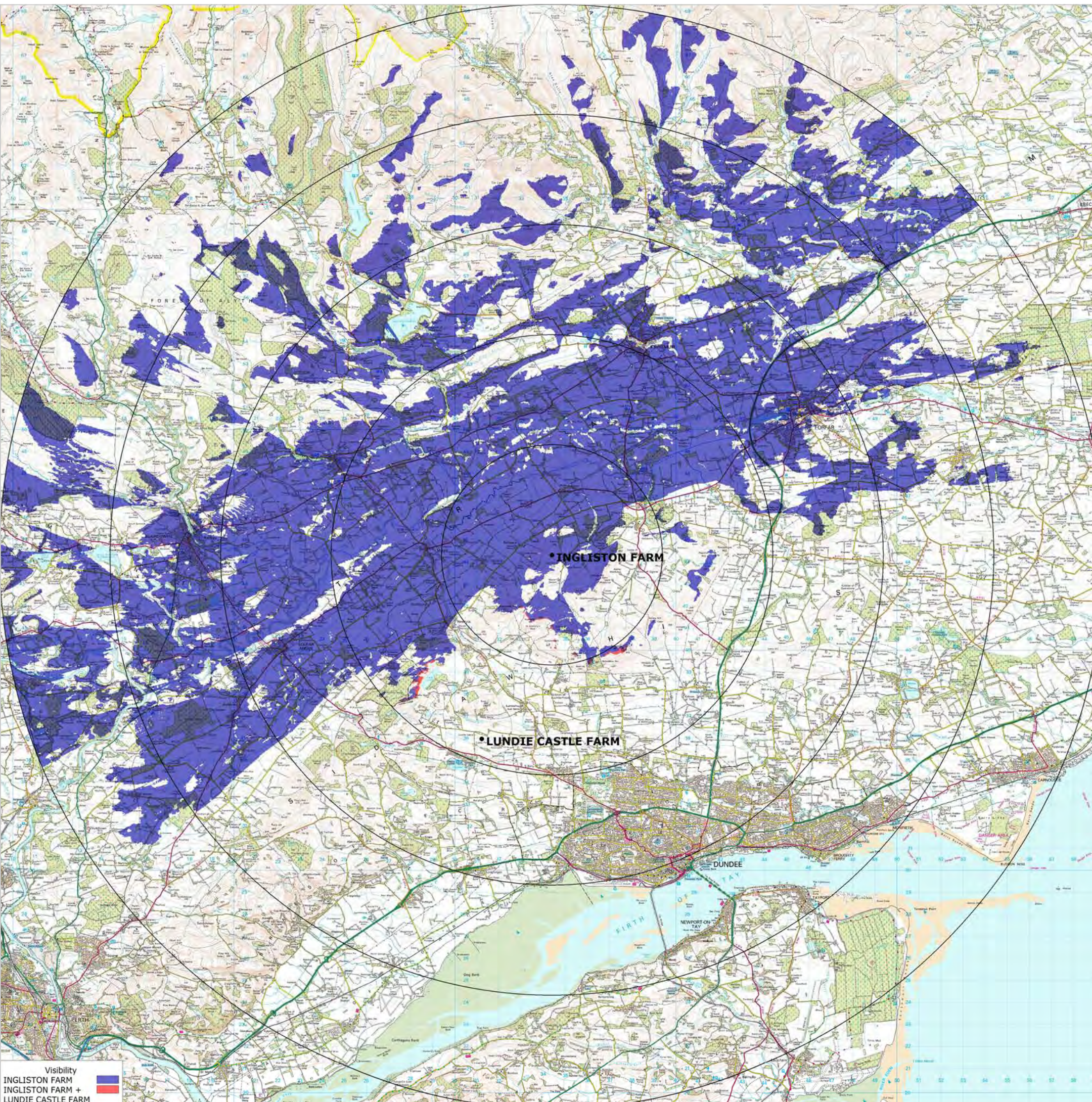
Red: At least the nacelle of the Ingliston Farm turbine and the Lundie Castle Farm turbine will be visible

Lundie Castle Farm details

No of turbines:	1
Distance from Ingliston Farm:	8.9km
Height to blade tip:	48.5m
Status:	Proposed

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Lundie Castle Farm
DRAWING NO:	ING033
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 LUNDIE CASTLE FARM



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved North Tarbax development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

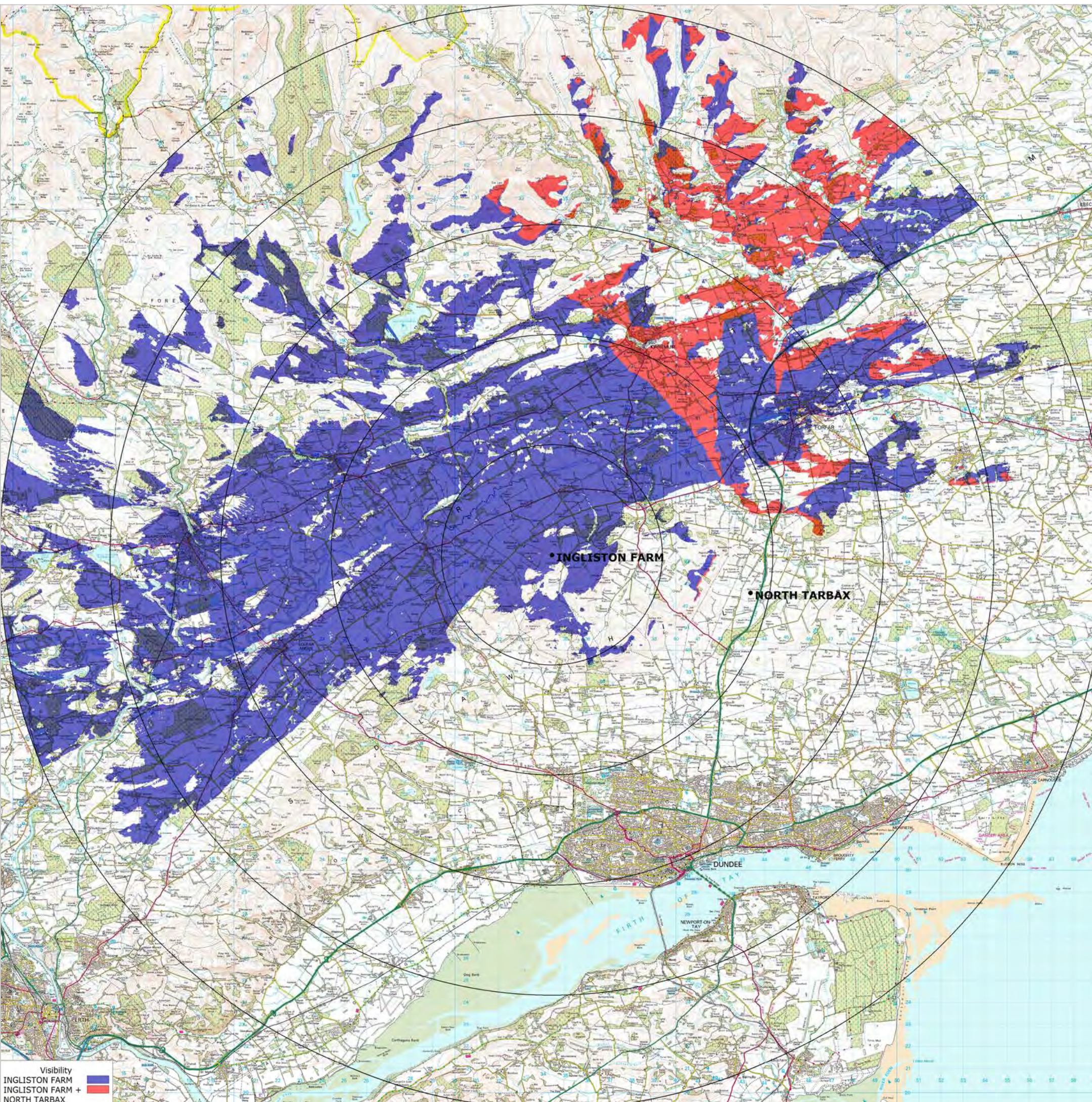
Red: At least the nacelle of the Ingliston Farm turbine and the North Tarbax turbine will be visible

North Tarbax details

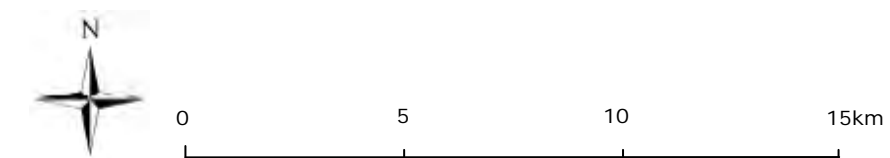
No of turbines:	1
Distance from Ingliston Farm:	9.1km
Height to blade tip:	45.9m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—North Tarbax
DRAWING NO:	ING034
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 NORTH TARBAX



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved House On The Hill development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

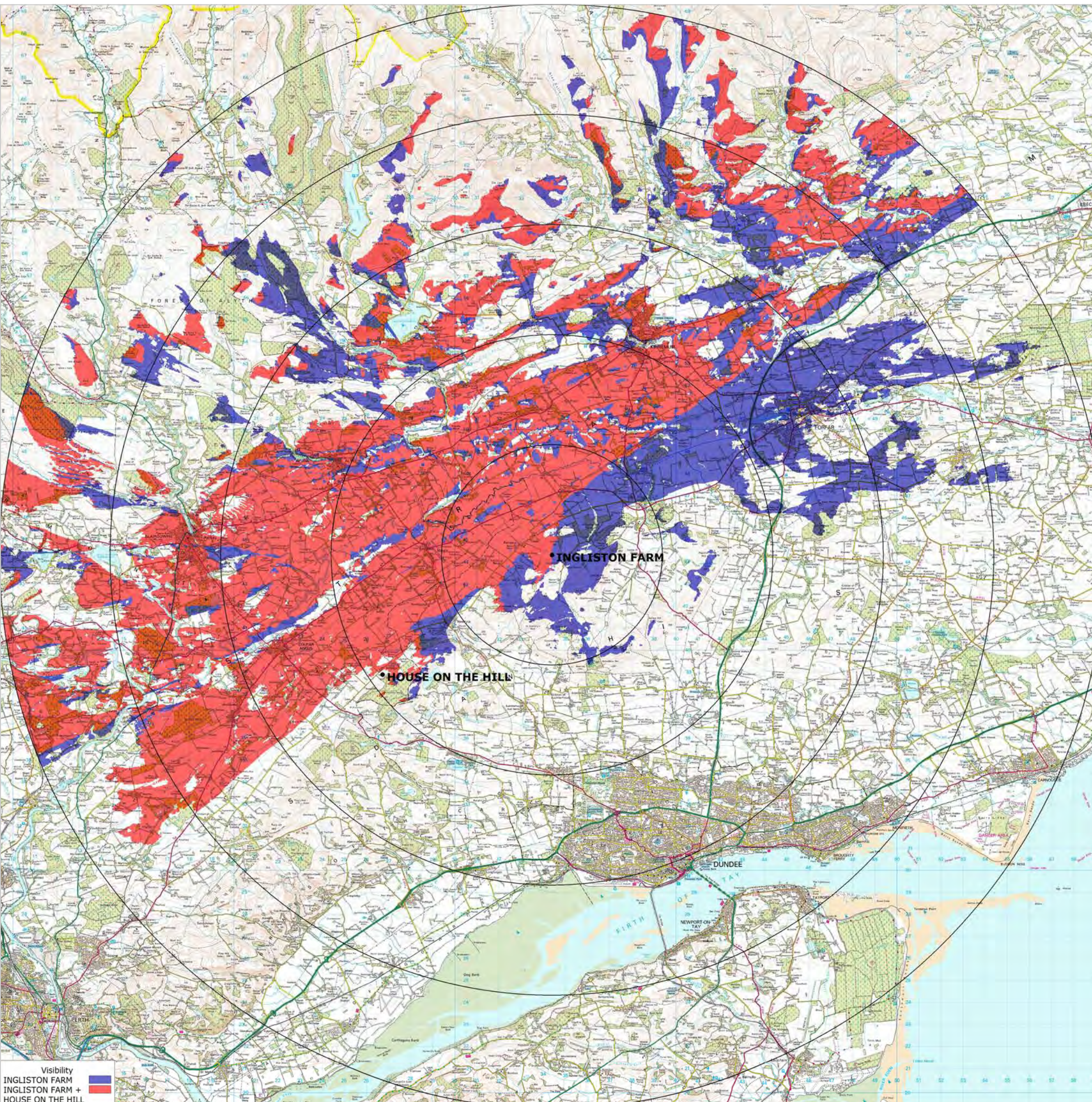
Red: At least the nacelle of the Ingliston Farm turbine and the House On The Hill turbine will be visible

House On The Hill details

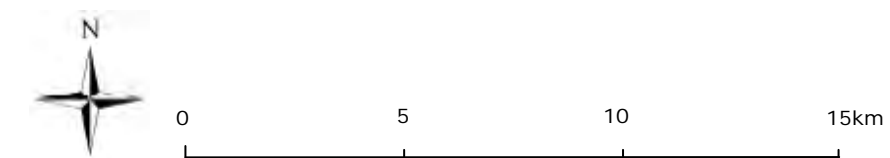
No of turbines:	1
Distance from Ingliston Farm:	9.4km
Height to blade tip:	46.5m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—House On The Hill
DRAWING NO:	ING035
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Visibility
 INGLISTON FARM
 INGLISTON FARM +
 HOUSE ON THE HILL



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the approved Tealing development.

Radii: 5, 10, 15, 20 and 25km

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

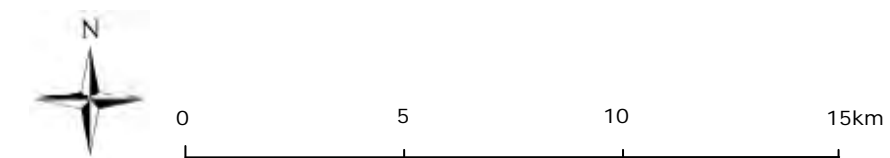
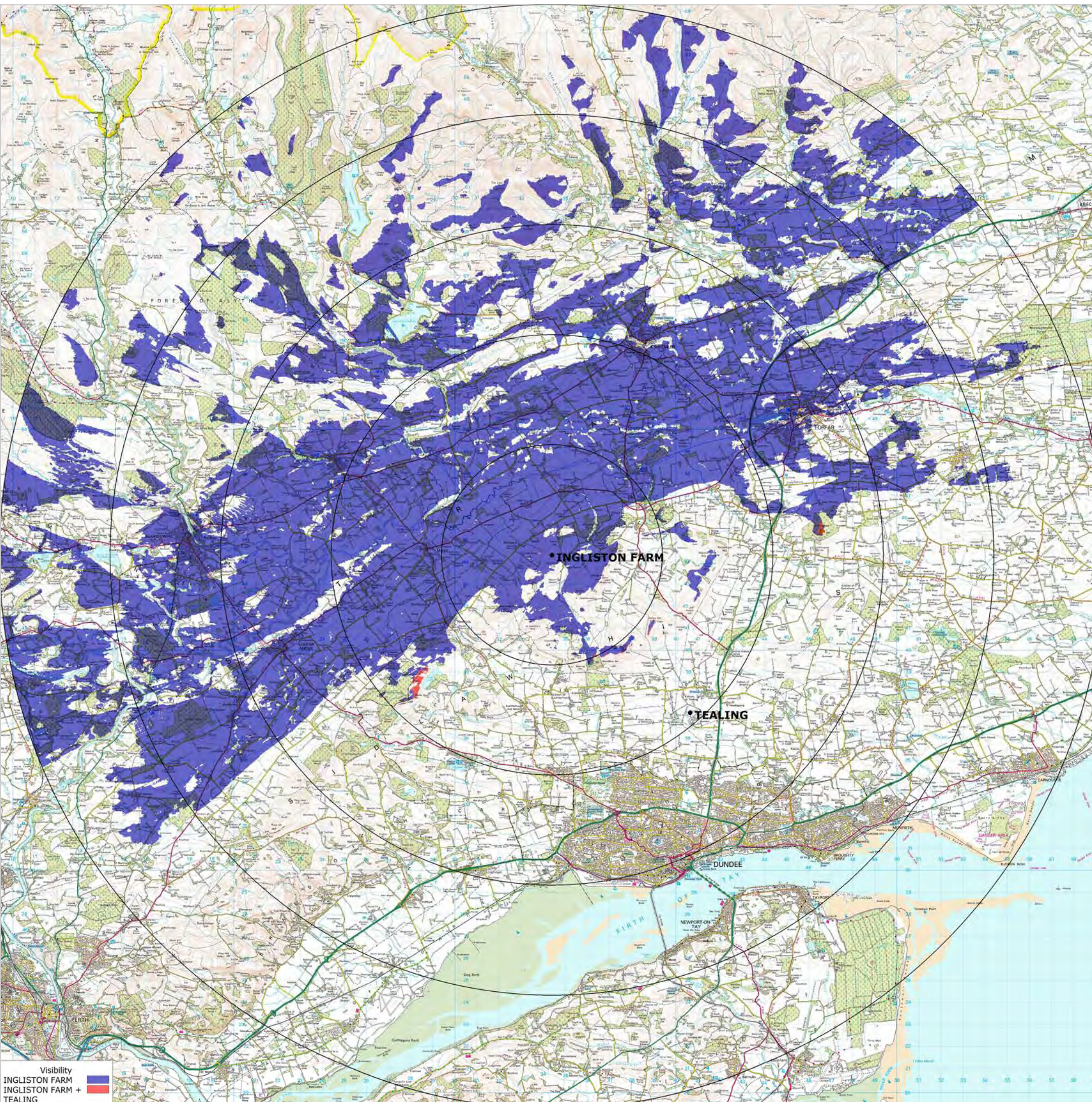
Red: At least the nacelle of the Ingliston Farm turbine and the Tealing turbine will be visible

Tealing details

No of turbines:	1
Distance from Ingliston Farm:	9.5km
Height to blade tip:	86.5m
Status:	Approved

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Tealing
DRAWING NO:	ING036
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbines:	1
Turbine Model:	EWT Directwind 54
Hub Height:	50m
Blade diameter:	54m
Total height to blade tip:	77m
Turbine location:	334397 744313

Notes

This map shows the cumulative zone of visibility of the proposed Ingliston Farm turbine and the proposed Former Tealing Airfield development.

Legend

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

Blue: Only Ingliston Farm turbine visible

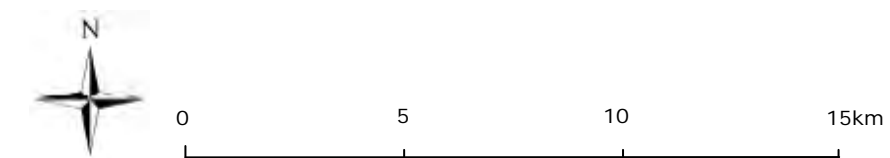
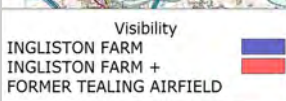
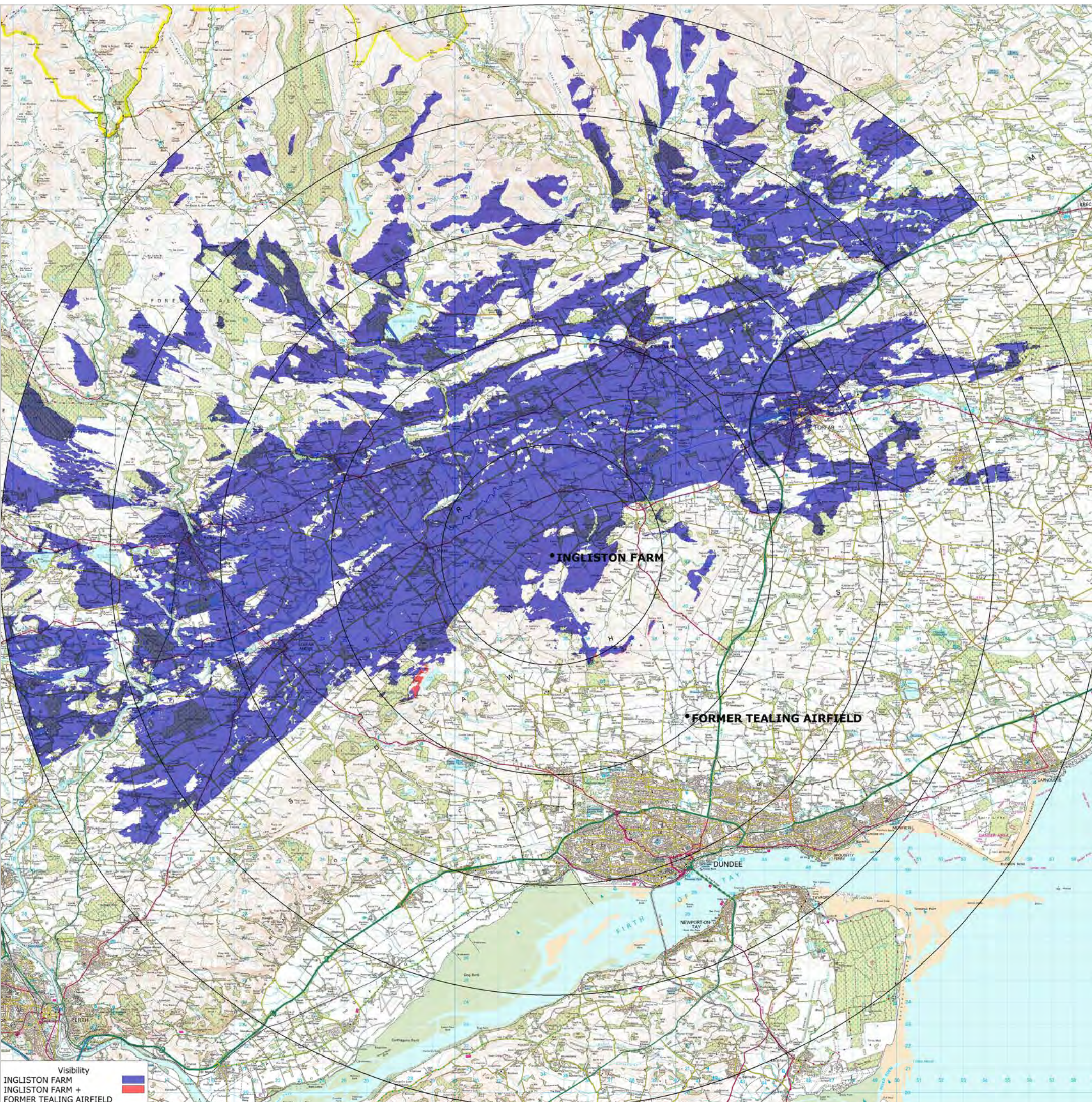
Red: At least the nacelle of the Ingliston Farm turbine and the Former Tealing Airfield turbine will be visible

Former Tealing Airfield details

No of turbines:	1
Distance from Ingliston Farm:	9.5km
Height to blade tip:	86.5m
Status:	Proposed

PROJECT: Ingliston Farm

DRAWING TITLE:	Cumulative ZTV—Former Tealing Airfield
DRAWING NO:	ING037
DOCUMENT SIZE:	A3
SCALE:	1:170,000
DATE:	30/08/2013
DRAWING BY:	Bojan Jevtic
APPROVED BY:	Andy Lowe



Project Description

Number of Turbine(s): 1
 Turbine Model: EWT Directwind 54
 Hub Height: 50m
 Blade diameter: 54m
 Total height to blade tip: 77m
 Turbine location: 334397 744313

Notes

This map illustrates the selected viewpoints for the LVIA study and the turbine ZTV.

Radii: 5, 10 and 15km

Legend

- Turbine Location
- Viewpoints

This theoretical visibility map is based on a receptor viewing height of 1.8m AGL. The levels of theoretical visibility are based on the following colouring scheme:

- Blue: Only the blades are theoretically visible from these areas
- Yellow: At least the nacelle and blades are theoretically visible in these areas
- Red: The blades, nacelle and tower down to a point at least 1m AGL are theoretically visible in these areas

PROJECT: **Ingliston Farm**

DRAWING TITLE: Viewpoints and ZTV
 DRAWING NO: ING038
 DOCUMENT SIZE: A3
 SCALE: 1:110,000
 DATE: 27/08/2013
 DRAWING BY: Bojan Jevtic
 APPROVED BY: Andy Lowe

VP	Location	Distance to Turbine (km)
1	Easter Denoon	0.7
2	Denoon Law	1.1
3	Local road near Eassie School	1.2
4	Balkeerie	1.4
5	Carlunie Hill	2.4
6	Eassie Bridge	3.2
7	Kinpurney Hill	3.3
8	Auchterhouse Hill	4.6
9	Glamis Castle	5.0
10	B 954 near Belmont Castle	5.4
11	Local road near Dryloch	7.1
12	A 928 near Kirriemuir	9.7
13	A 926 near Padanaram	11.5
14	A 923 near Coupar Angus	12.8

