

From: [Gemma Keenan](#)
To: [Tracey Williams](#)
Cc: [REDACTED]
Subject: Norfolk Vanguard - Email 14 of 18 Deadline 1 Submissions
Date: 16 January 2019 14:58:07
Attachments: [ExA:WQApp18.1:10.D1.3 Norfolk Vanguard WQ Appendix 18.1 CROW Open Access Land.pdf](#)
[ExA:WQApp19.1:10.D1.3 Norfolk Vanguard WQ Appendix 19.1 Skills-Supply Chain Engagement.pdf](#)

Dear Tracey

This is email 14 of 18 of the Applicant's submission for Norfolk Vanguard Examination Deadline 1.

We enclose the following documents:

Appendices to Written Questions:

- Appendix 18.1 18.25 CROW Open Access Land
- Appendix 19.1 Evidence and Examples of Skills and Supply Chain Engagement

Please could you kindly confirm receipt.

Best Regards

Gemma Keenan BSc, MIEMA, CEnv
Senior Environmental Consultant

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Norfolk Vanguard Offshore Wind Farm

The Applicant

Responses to First

Written Questions

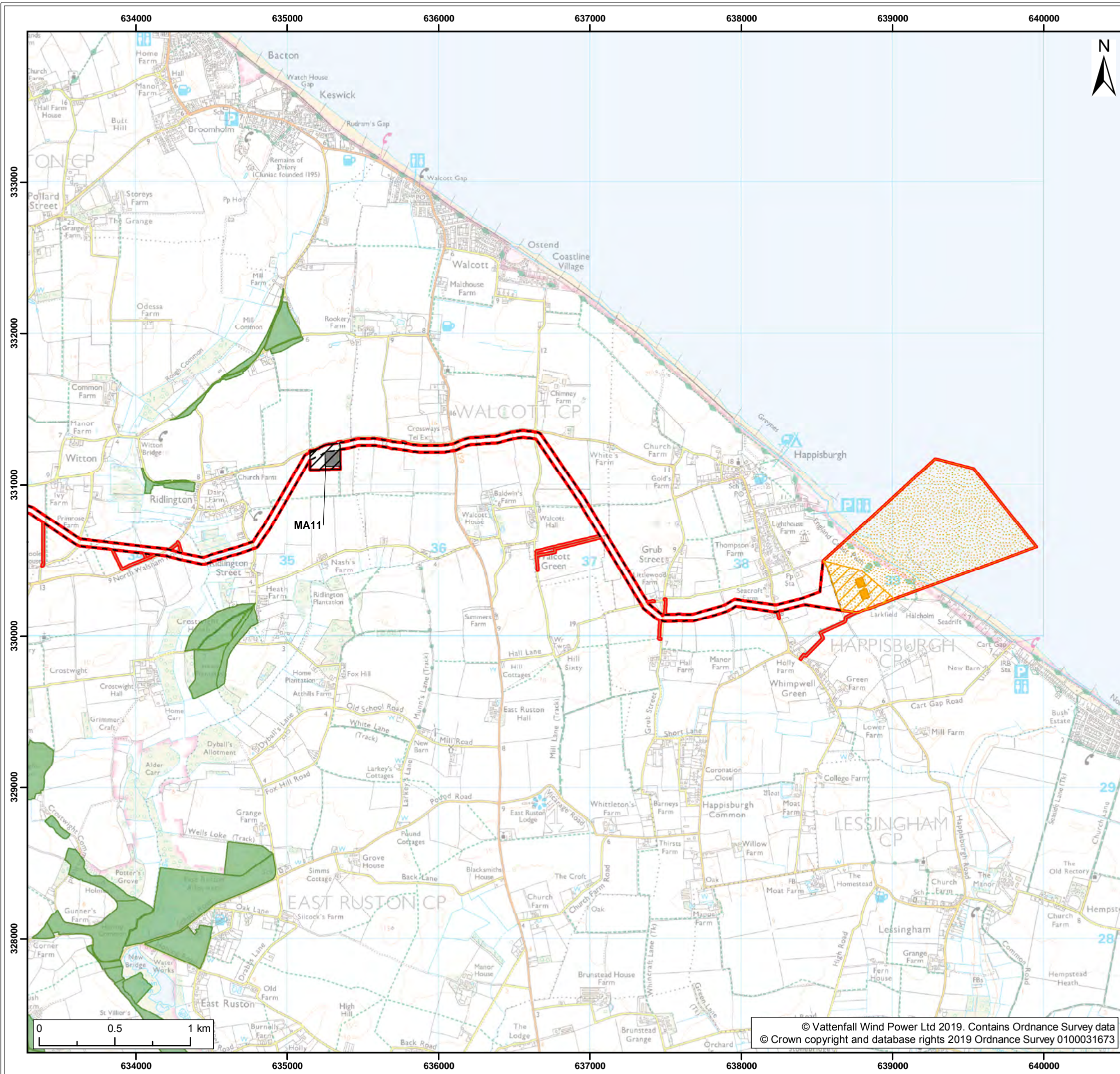
Appendix 18.1 – CRoW Open Access Land Figures (Q18.25)

Applicant: Norfolk Vanguard Limited
Document Reference: ExA;WQApp18.1;10.D1.3
Deadline 1

Date: January 2019

Photo: Kentish Flats Offshore Wind Farm





- Legend:
- Norfolk Vanguard onshore red line boundary
 - Landfall**
 - Landfall zone
 - Landfall compound zone
 - Indicative landfall compound
 - Onshore cable route**
 - Onshore cable route
 - Mobilisation zone
 - Indicative mobilisation area compound
 - Access**
 - Construction access
 - Operation access
 - Countryside and Rights of Way Act 2000¹**
 - Access Land

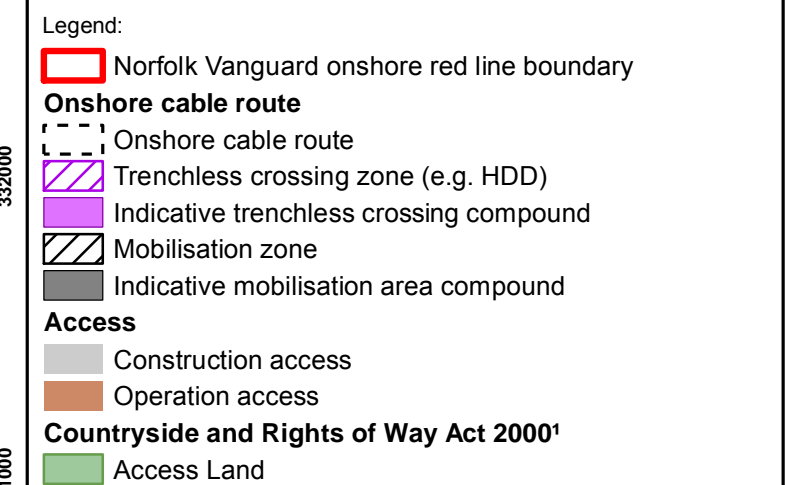
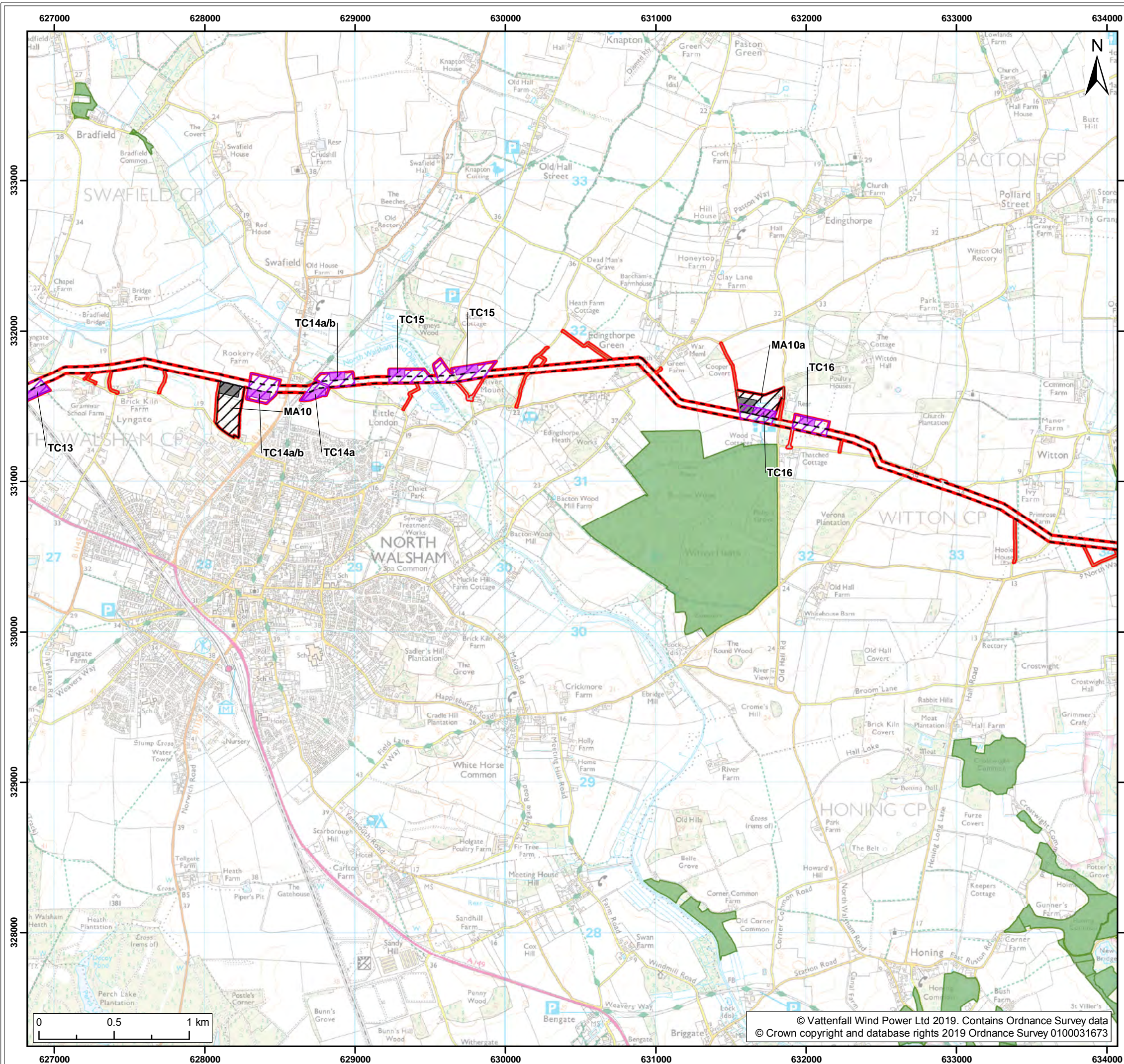
¹ Natural England, 2018.

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 1 of 9)
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Figure: 1		Drawing No: PB4476-008-006-001			
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
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Co-ordinate system: British National Grid EPSG: 27700



¹ Natural England, 2018.

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

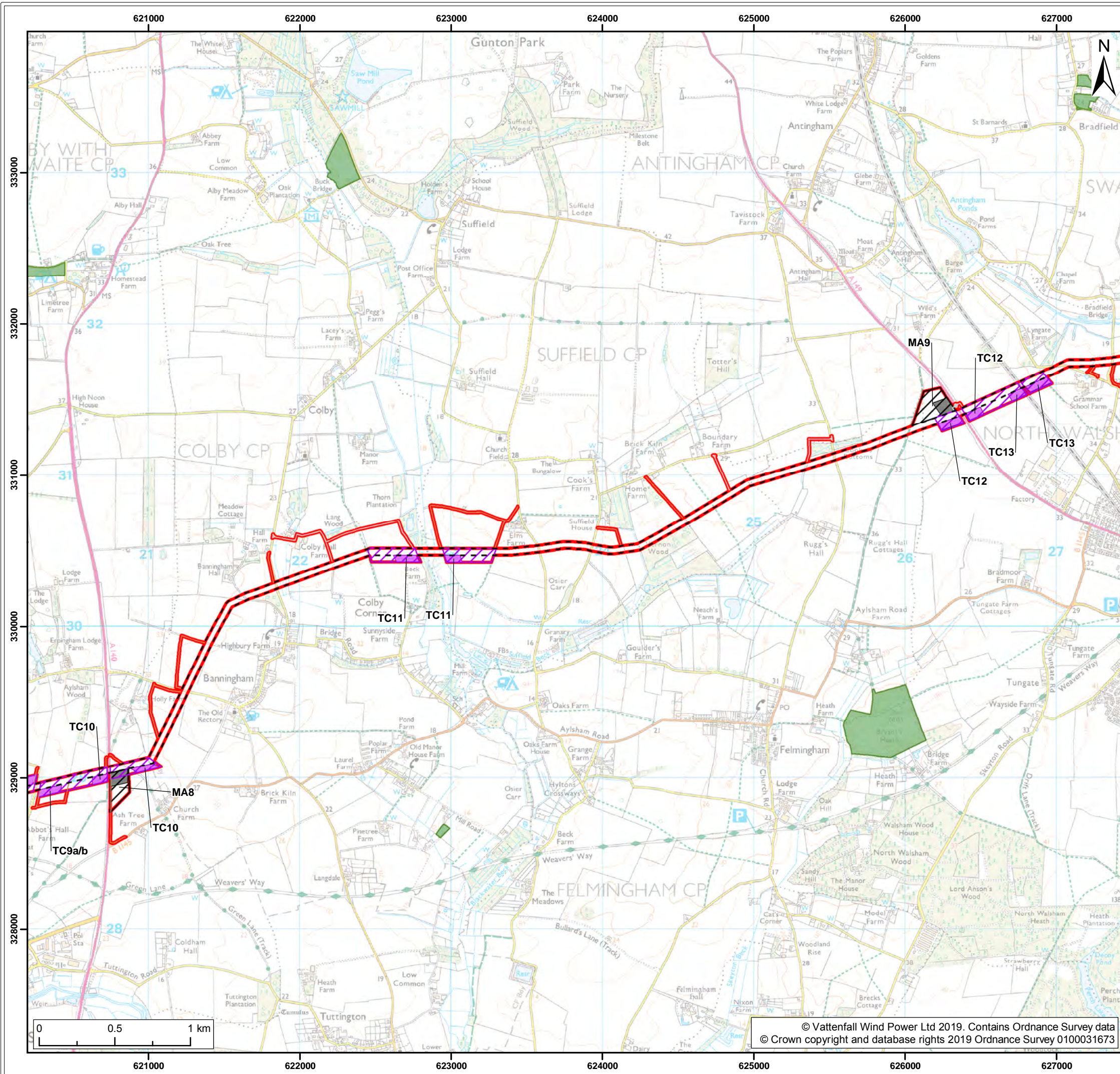
Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 2 of 9)
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Co-ordinate system:	British National Grid	EPSG:	27700
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Legend:

- Norfolk Vanguard onshore red line boundary
- Onshore cable route
- Trenchless crossing zone (e.g. HDD)
- Indicative trenchless crossing compound
- Mobilisation zone
- Indicative mobilisation area compound
- Access
 - Construction access
 - Operation access
- Countryside and Rights of Way Act 2000¹
 - Access Land

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 3 of 9)
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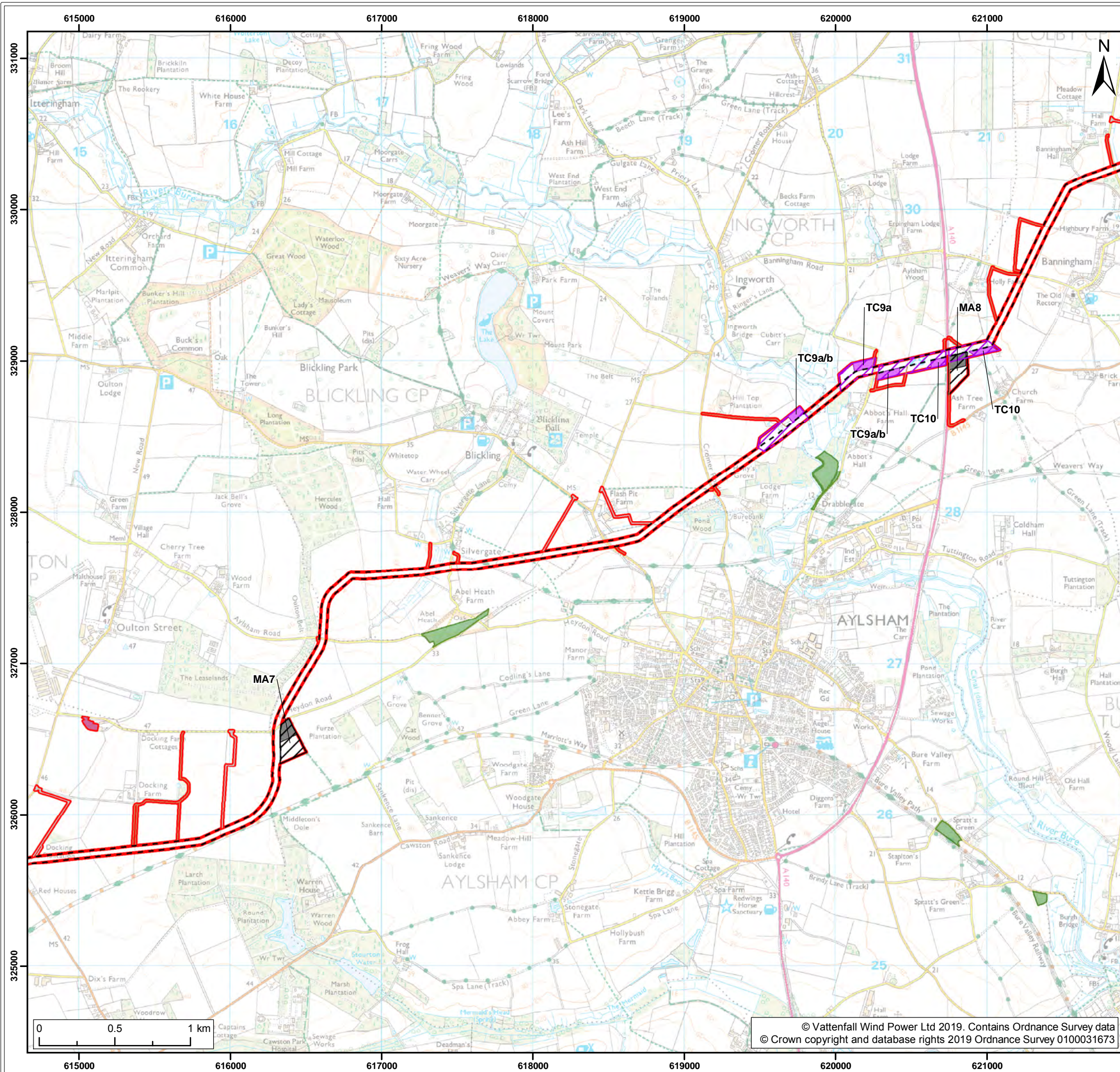
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Co-ordinate system: British National Grid EPSG: 27700



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Legend:

- Norfolk Vanguard onshore red line boundary
- Onshore cable route
- Trenchless crossing zone (e.g. HDD)
- Indicative trenchless crossing compound
- Mobilisation zone
- Indicative mobilisation area compound
- Cable logistics area
- Access
- Construction access
- Operation access
- Countryside and Rights of Way Act 2000¹
- Access Land

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

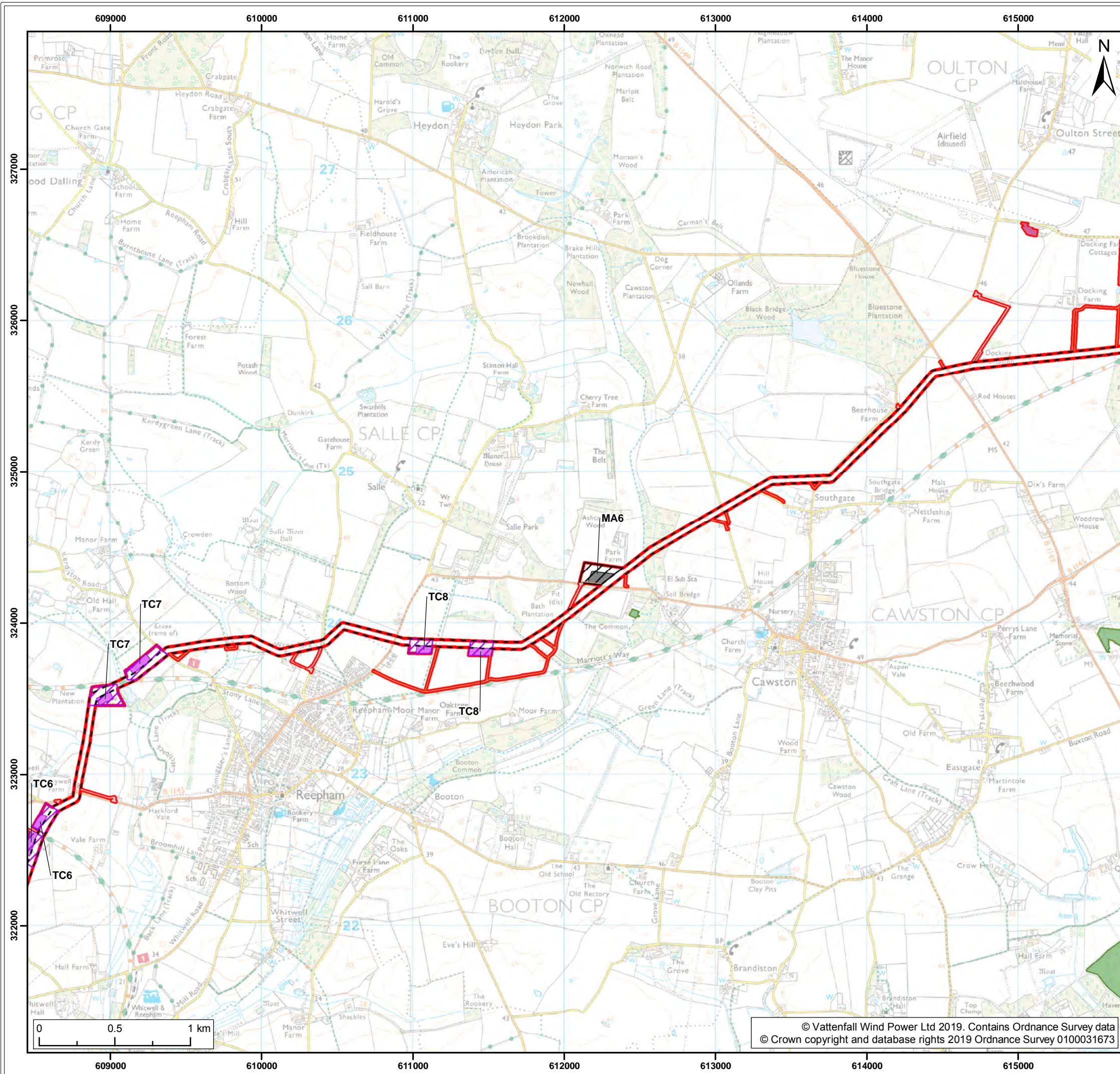
Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 4 of 9)
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Co-ordinate system:	British National Grid	EPSG:	27700
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- Legend:
- Norfolk Vanguard onshore red line boundary
 - Onshore cable route
 - Trenchless crossing zone (e.g. HDD)
 - Indicative trenchless crossing compound
 - Mobilisation zone
 - Indicative mobilisation area compound
 - Cable logistics area
 - Access
 - Construction access
 - Operation access
 - Countryside and Rights of Way Act 2000¹
 - Access Land

¹ Natural England, 2018.

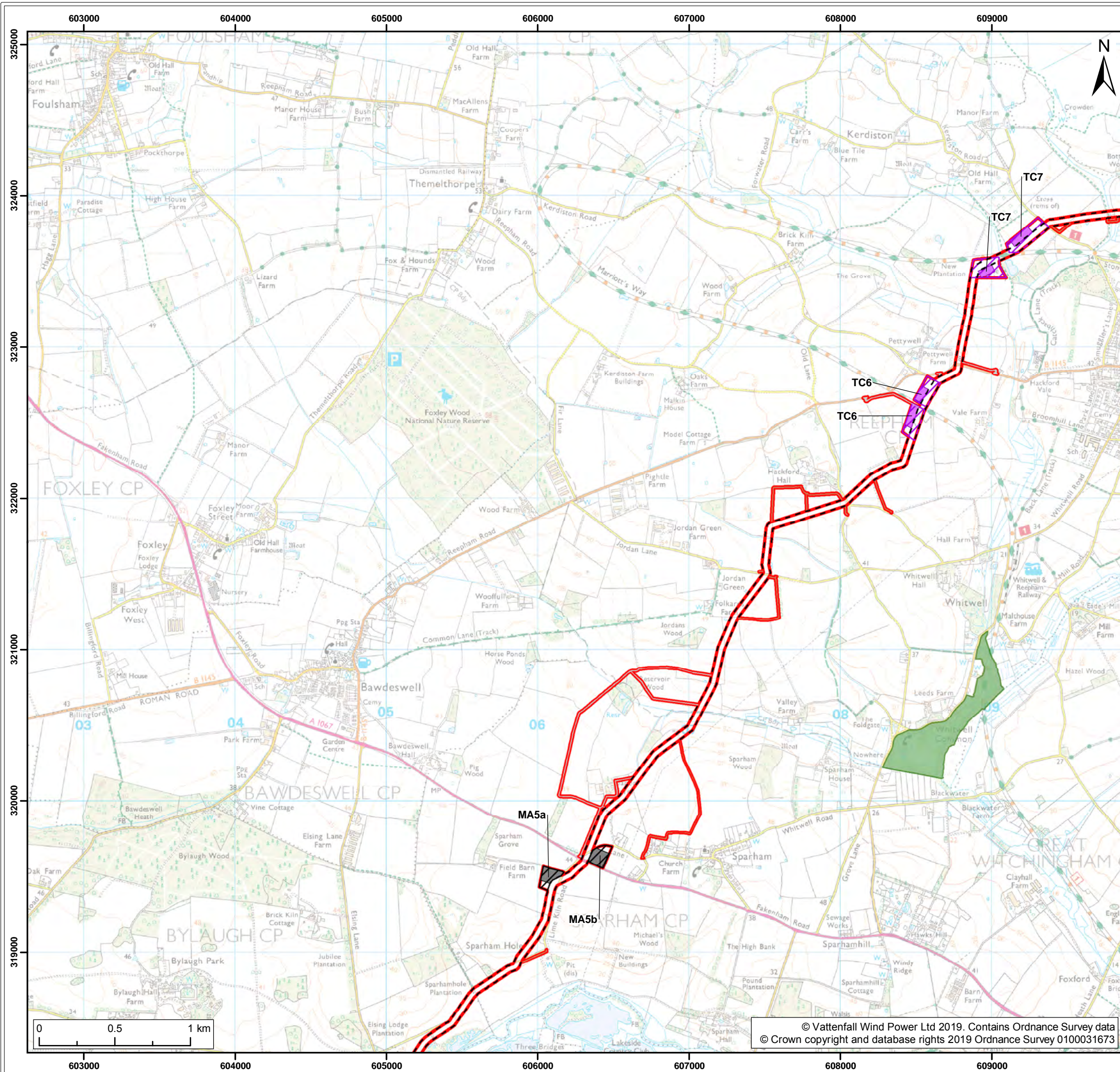
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Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 5 of 9)
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Co-ordinate system: British National Grid EPSG: 27700

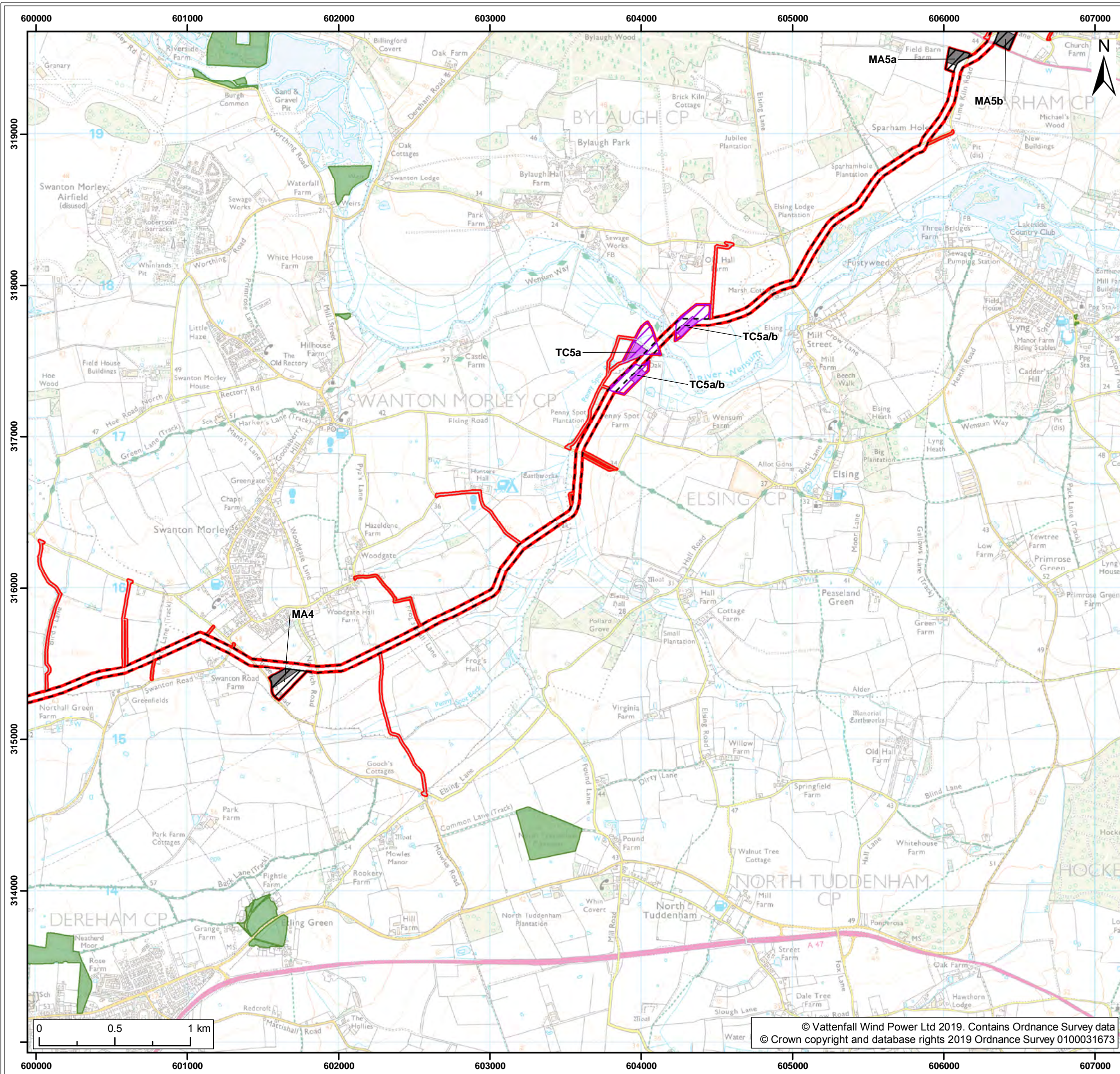




- Legend:
- Norfolk Vanguard onshore red line boundary
 - Onshore cable route
 - Trenchless crossing zone (e.g. HDD)
 - Indicative trenchless crossing compound
 - Mobilisation zone
 - Indicative mobilisation area compound
 - Access
 - Construction access
 - Operation access
 - Countryside and Rights of Way Act 2000¹
 - Access Land

¹ Natural England, 2018.

Project: Norfolk Vanguard		Report: Applicant Responses to the ExA's First Written Questions			
Title: Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 6 of 9)					
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Co-ordinate system: British National Grid				EPSG: 27700	
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- Legend:
- Norfolk Vanguard onshore red line boundary
 - Onshore cable route
 - Trenchless crossing zone (e.g. HDD)
 - Indicative trenchless crossing compound
 - Mobilisation zone
 - Indicative mobilisation area compound
 - Access
 - Construction access
 - Operation access
 - Countryside and Rights of Way Act 2000¹
 - Access Land

¹ Natural England, 2018.



Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title:	Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 7 of 9)
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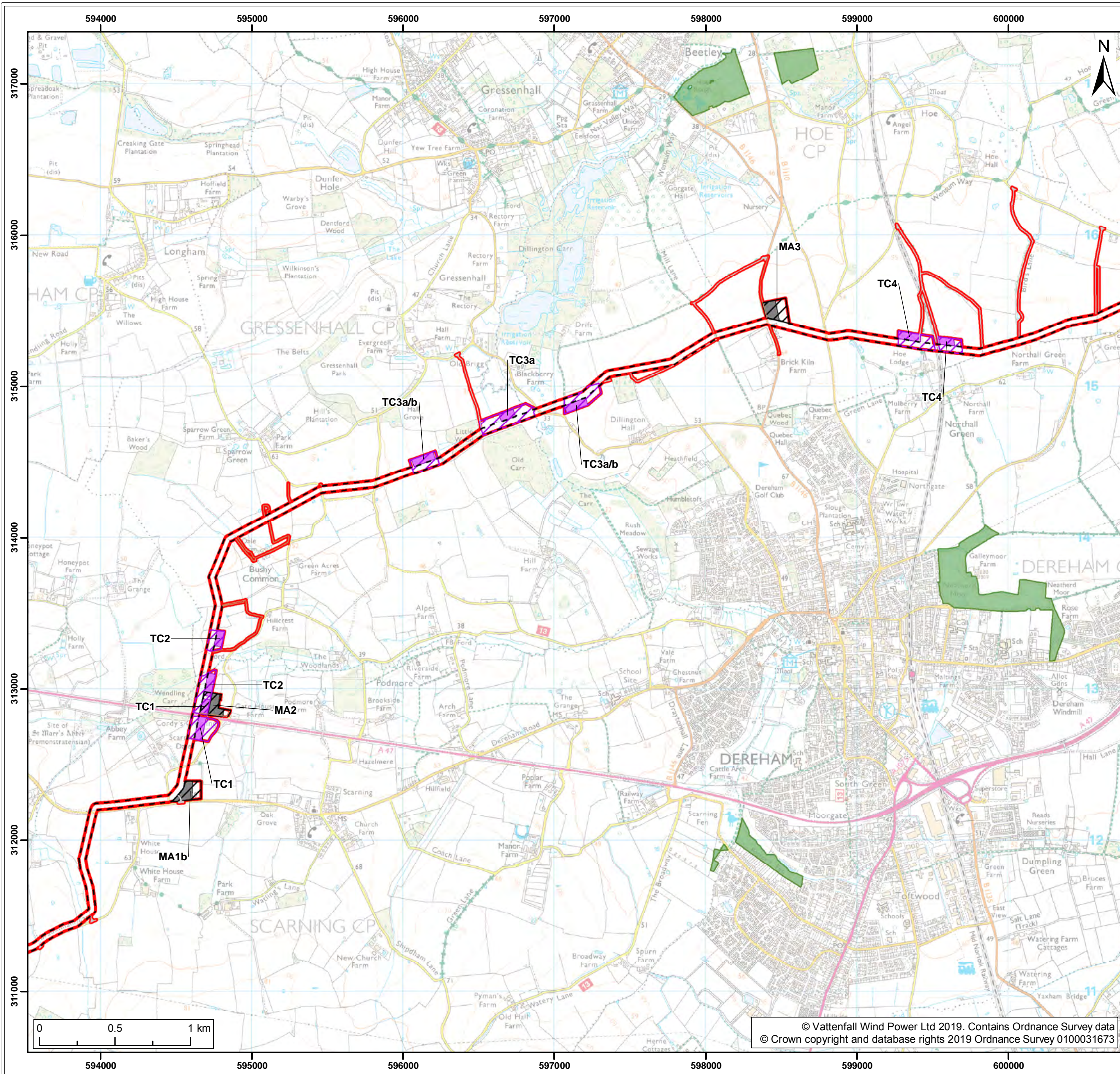
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Co-ordinate system:	British National Grid	EPSG:	27700
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Legend:

- Norfolk Vanguard onshore red line boundary
- Onshore cable route
- Trenchless crossing zone (e.g. HDD)
- Indicative trenchless crossing compound
- Mobilisation zone
- Indicative mobilisation area compound
- Access
- Construction access
- Operation access
- Countryside and Rights of Way Act 2000¹
- Access Land

¹ Natural England, 2018.

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title: Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 8 of 9)

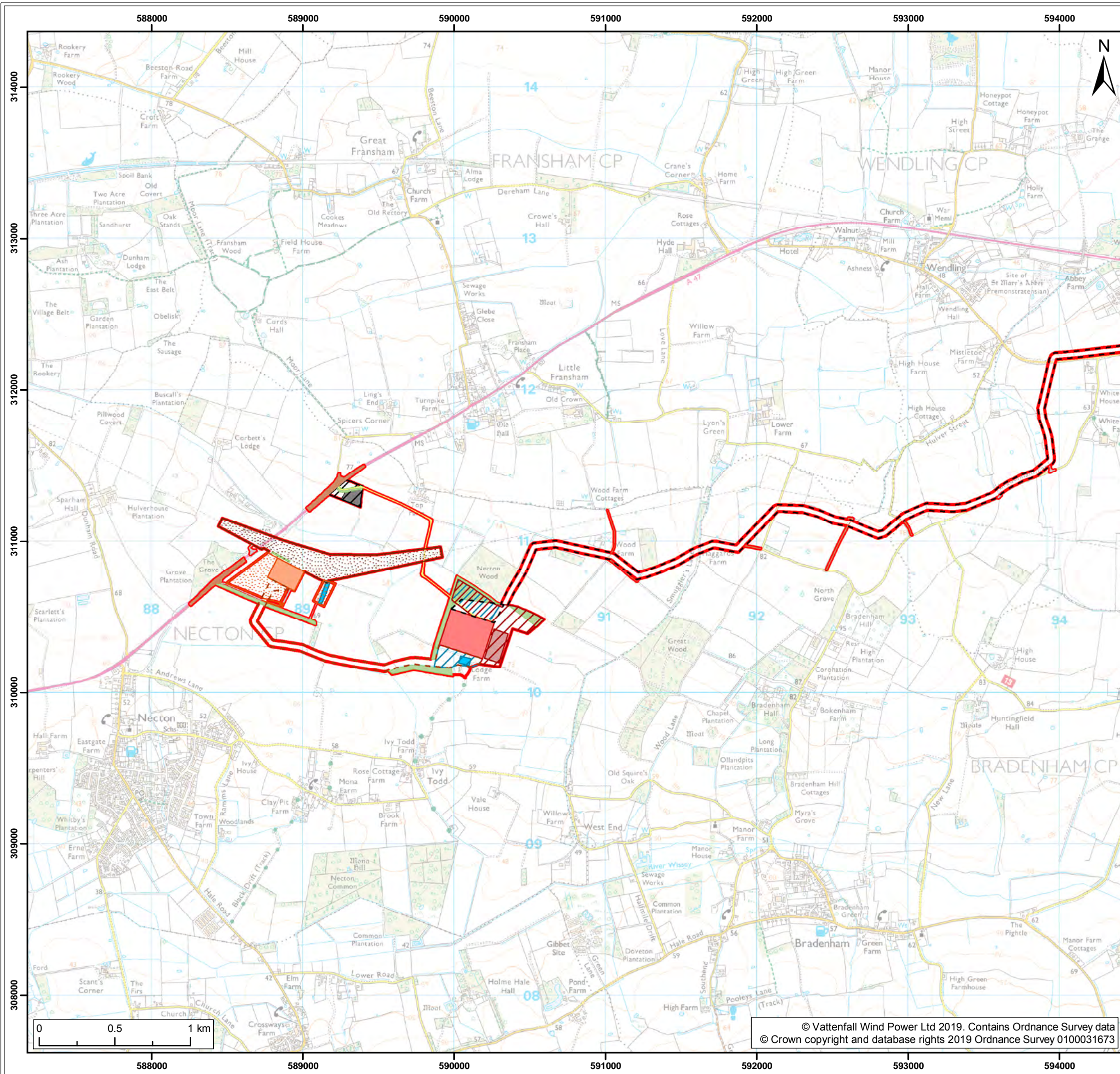
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Co-ordinate system: British National Grid EPSG: 27700

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Legend:

- Norfolk Vanguard onshore red line boundary
- Onshore cable route
 - Onshore cable route
 - Onshore 400kv cable route
- Mobilisation zone
- Indicative mobilisation area compound
- Access
 - Permanent access
 - Construction access
 - Operation access
- Onshore project substation
 - Onshore project substation
 - Onshore project substation temporary construction compound zone
- Indicative onshore project substation temporary construction compound
- National Grid
 - National Grid substation extension
 - National Grid temporary works
 - Overhead line temporary works
- Mitigation areas
 - Attenuation pond zone
 - Indicative attenuation pond
 - Indicative mitigation planting

¹ Natural England, 2018.

Project:	Report:
Norfolk Vanguard	Applicant Responses to the ExA's First Written Questions

Title: Countryside and Rights of Way Act 2000 (CRoW Act) Access Land (map 9 of 9)

3090

Figure: 1	Drawing No: PB4476-008-006-001				
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Co-ordinate system: British National Grid EPSG: 27700

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Norfolk Vanguard Offshore Wind Farm

The Applicant

Responses to First

Written Questions

Appendix 19.1 – Evidence and Examples of Skills and Supply Chain Engagement (Q 19.21)

Applicant: Norfolk Vanguard Limited
Document Reference: ExA;WQApp19.1;10.D1.3
Deadline 1

Date: January 2019

Photo: Kentish Flats Offshore Wind Farm



Evidence and Examples of Skills and Supply Chain Engagement

Examples of Vattenfall's work with the local supply chain can be found on Vattenfall website via the following links. Screenshots of the relevant webpages are also provided below for reference.

Supply chain: <https://corporate.vattenfall.co.uk/projects/wind-energy-projects/vattenfall-in-norfolk/norfolkvanguard/supply-chain/>

Supply chain

Opportunities and investment

Vattenfall is committed to ensuring that our approach to project procurement and investment supports local businesses to enter and prosper in the renewable energy and green job sectors.



Vattenfall is committed to ensuring that our approach to project procurement and investment supports local businesses to enter and prosper in the renewable energy and green job sectors.

We have a good record of working with local supply chains, developing local skills in the areas in which we operate, and investing in local infrastructure.

By partnering with business and training agencies in the region, we hope to ensure Norfolk gains significantly from the major investment that comes from multi billion pound schemes like Norfolk Vanguard and Norfolk Boreas.

As part of this commitment we will require contractors involved with the Norfolk Vanguard and Boreas projects to work to maximise, where they can, the use of local business.

In March 2018, in collaboration with [East of England Energy Group \(EEEGR\)](#), we began meeting with local businesses because we believe early engagement with the supply chain will assist us in producing an optimised contracting strategy for the Norfolk projects, and we know that local companies bring valuable local knowledge and expertise.



The first version of our [Supply Chain Information Pack](#) gives more information on the background to the project, the timelines for construction, the range of opportunities available and links to sources of support and advice for local companies.

Our Supply Chain work
Find out more here

Supply Chain News

4th October 2018 - Offshore wind confidence booster for Norfolk as energy company plans Great Yarmouth home

4th October 2018 - Blog Post from Ruari Lean, Project Manager for Norfolk Vanguard

Supply Chain Request for Information Documents

[Vattenfall UK Request For Information.pdf](#)

[Vattenfall Code of Conduct for Suppliers.pdf](#)

[HSE Prequalification Questionnaire.xlsx](#)

[Local Content Questionnaire.doc](#)

Workshop Documents

[Dec 2018 Supply Chain Workshop Slide Pack](#)

[Dec 2018 Supply Chain Workshop Report](#)

[Sept 2018 Supply Chain Workshop Report](#)

Supply Chain Info Packs

[Norfolk Projects Supply Chain Info Pack](#)

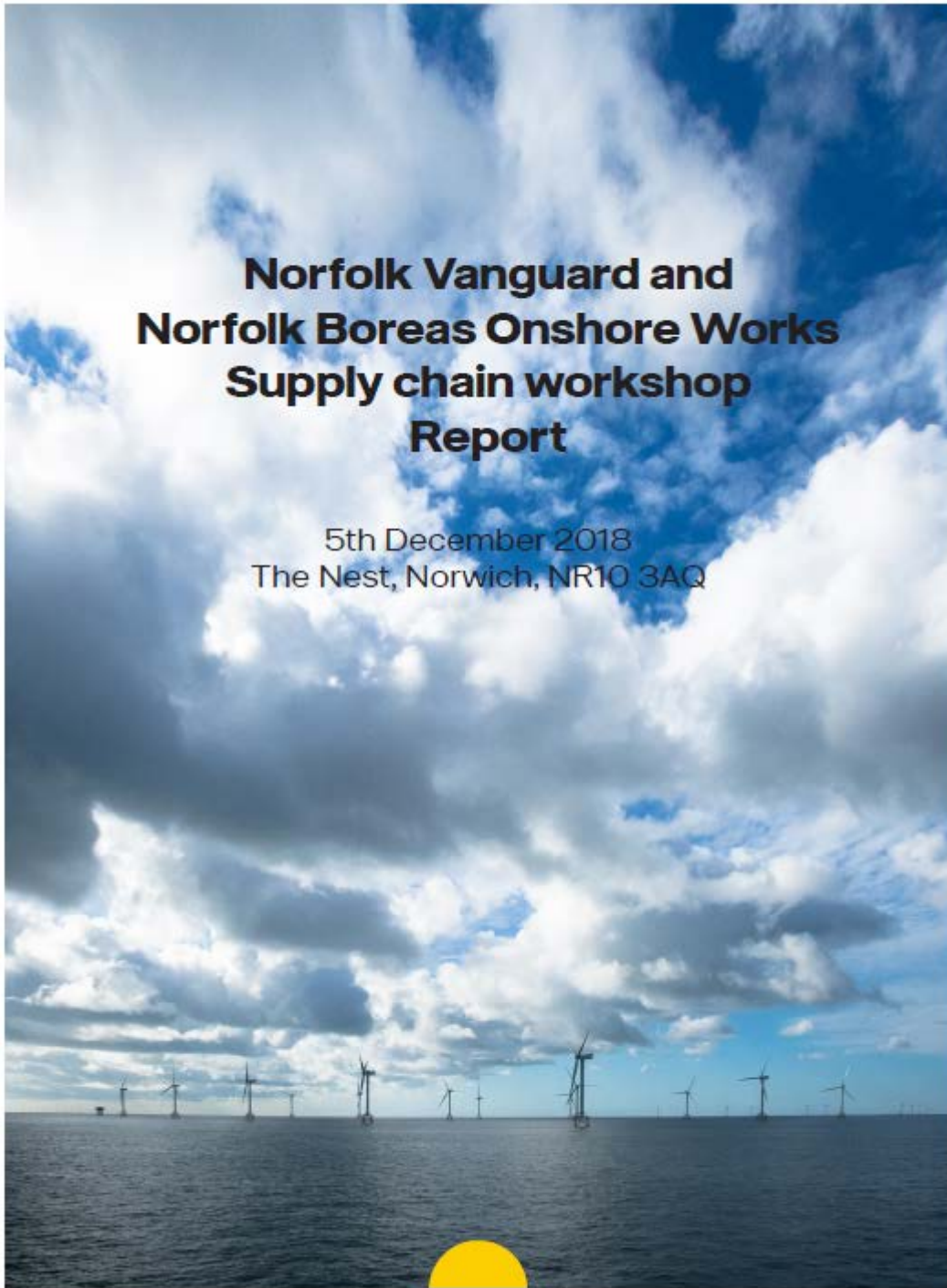
[Vattenfall Offshore Wind Supply Chain Info Pack](#)

And :

<https://corporate.vattenfall.co.uk/contentassets/d6ec1f8e51f1448cbb1a0f8c071bb23/norfolk-vanguard-ad-norfolk-boreas-onshore-supply-chain-workshop-december-5th-2018.pdf>

Norfolk Vanguard and Norfolk Boreas Onshore Works Supply chain workshop Report

5th December 2018
The Nest, Norwich, NR10 3AQ



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Information on Vattenfall's skills and education outreach work, informing Vattenfall's evolving skills strategy can be found here: <https://corporate.vattenfall.co.uk/projects/wind-energy-projects/vattenfall-in-norfolk/out-and-about/>

Out and about

Supply Chain Workshop - December 2018



On 6th December 2018 we were delighted to host local agencies, Tier 1 companies and SMEs for a supply chain workshop at The Nest venue in Horsham. Around 60 participants came together to hear from Vattenfall about onshore works required to deliver the proposed Norfolk Vanguard and Norfolk Boreas offshore wind farm projects, and to explore their role in delivering these next generation, clean energy projects. Presentations were also delivered by Tier 1 companies, by Norfolk County Council, The Chamber of Commerce, New Anglia LEP and EEEGR. [Read more here.](#)

Skills for Energy 2018



Local Liaison Officer for the Norfolk projects, Sue Falch Lovesey, recently attended EEEGR's popular Skills for Energy event at the Great Yarmouth Campus of East Coast College.

Attended by over 400 students from 12 schools and colleges across Norfolk, the event aims to feed the increasing appetite among young people to explore and access the full range of training and career opportunities in the energy industry.

Gemma Head, manager of the Skills for Energy Programme at EEEGR, said: "What this event demonstrates is the strong partnership between industry and education, sending a united message about opportunities and how young people can access them. Bringing young people to talk to employers face to face is the best way for information to be conveyed to them and for relationships to be built. The interest of the students has been phenomenal. You can see their eyes light up when they hear about the diverse range of careers offered by the industry."

East Coast Internship with The Ogden Trust

Norwich Science Festival



In October 2018, we attended the Norwich Science Festival with support from Rebecca and Tommy, two of the internship students hosted by Vattenfall in the summer. They both have great enthusiasm for wind energy and the role of renewables in tackling challenges presented by climate change.

Share

Colby School Wins Prestigious Award



Congratulations to Colby School, deserved winners of the CPRE Engaged Youth Award for their Eco Hub and their work as eco-ambassadors. Vattenfall is proud to work closely with the school, staff and pupils to support their innovative Green Energy Outreach Programme. [Read more here.](#)

Vattenfall interns deliver presentation at EEEGR's Offshore Wind Week





With the East Coast Internship programme now in its third year, Vattenfall were delighted to work with The Ogden Trust in summer of 2018 to support placements for four students in the break between Year 12 and Year 13. A collaborative approach to hosting with Nexus in Great Yarmouth gave students an introduction to the wind energy industry and also insight into engineering related disciplines. Read more about the programme [here](#).

Colby School Green Energy Outreach Programme



Ambassadors for fossil-free living

In 2018 Vattenfall became sponsors of Colby School's Energy Outreach Programme, an educational initiative for primary age children to explore renewables through hands-on activities, and forming part of the school's award-winning Eco Hub project. With funding for equipment and support from Vattenfall, Colby School pupils developed a workshop which they later went on to deliver to other schools in the surrounding area. Read the latest [here](#).

3D Wind Farm Design Programme



Now almost in its third year, the 3D VR Wind Farm Design programme has evolved from a Vattenfall-led outreach and education initiative to a peer to peer workshop facilitated by Norfolk students. Read more about it [here](#).