

Orkney's Community Wind Farm Project - Faray

Environmental Impact Assessment Report – Volume 2

June 2021

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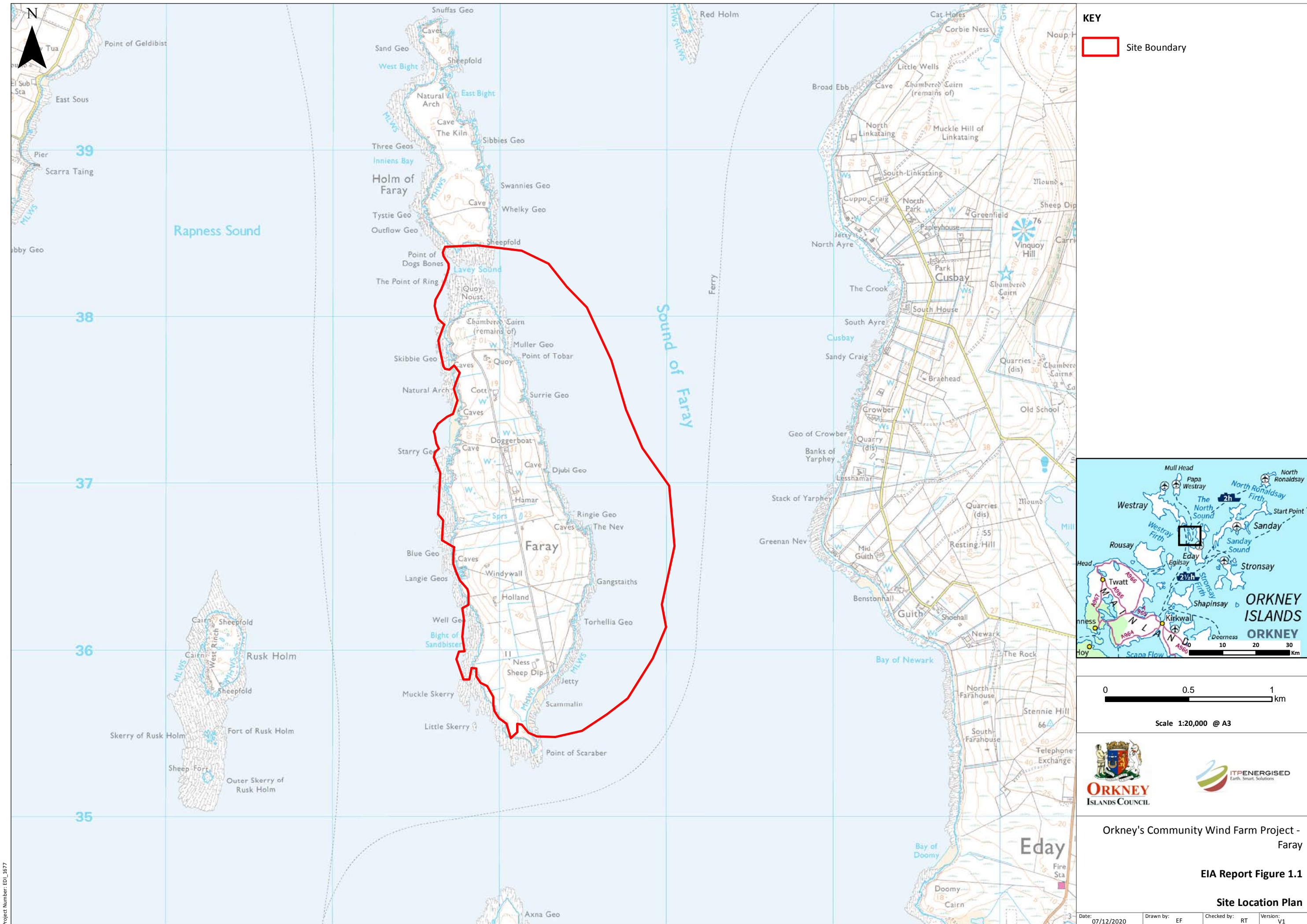
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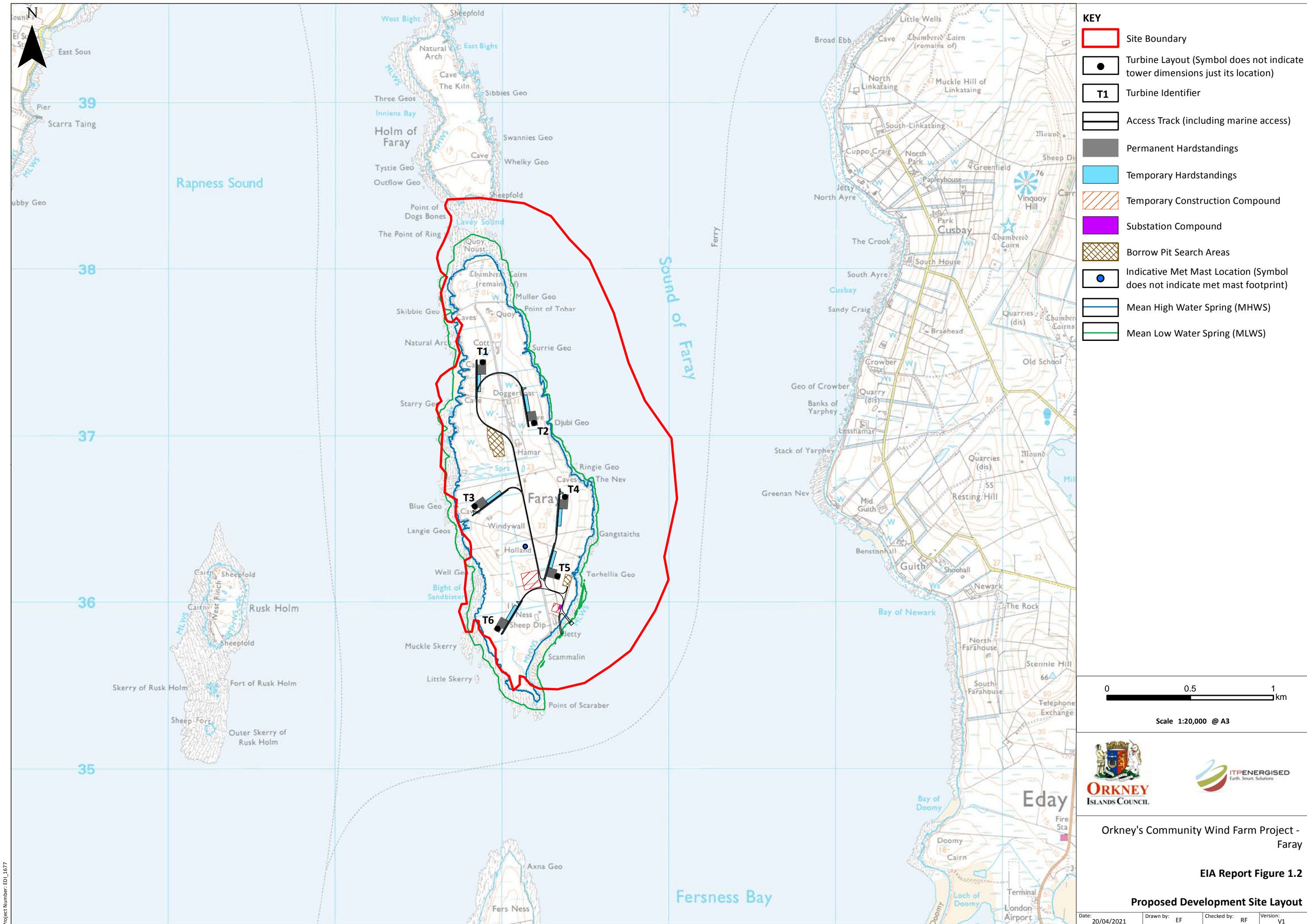
Volume 3 – LVIA Figures and Cultural Heritage Visualisations

Volume 4 – Technical Appendices

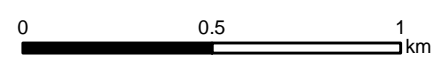
Volume 5 – Confidential Appendices



Project Number: ED_1677



- KEY**
- Site Boundary
 - Turbine Layout (Symbol does not indicate tower dimensions just its location)
 - Turbine Identifier
 - Access Track (including marine access)
 - Permanent Hardstandings
 - Temporary Hardstandings
 - Temporary Construction Compound
 - Substation Compound
 - Borrow Pit Search Areas
 - Indicative Met Mast Location (Symbol does not indicate met mast footprint)
 - Mean High Water Spring (MHWS)
 - Mean Low Water Spring (MLWS)



Scale 1:20,000 @ A3

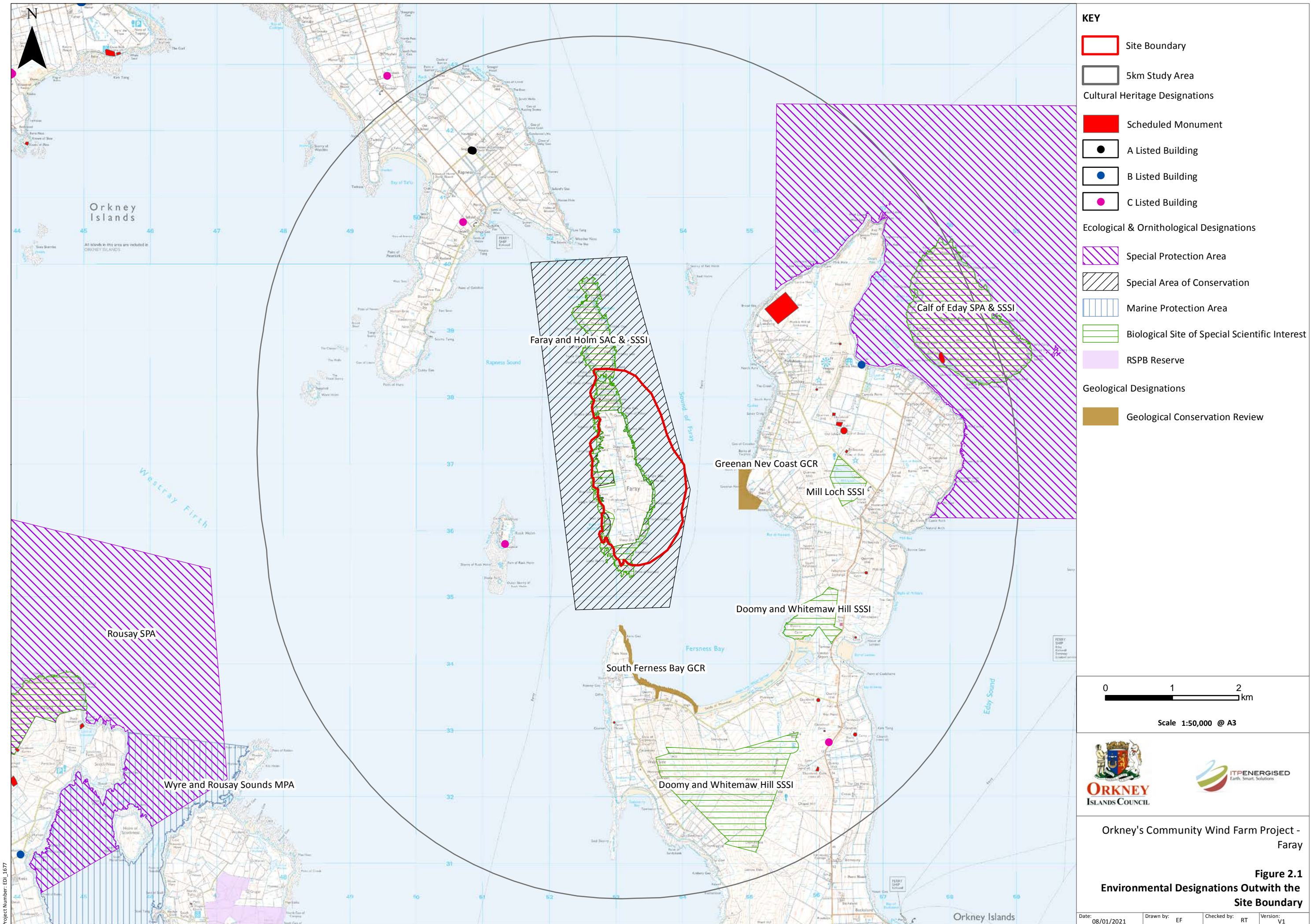


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 1.2

Proposed Development Site Layout

Date: 20/04/2021	Drawn by: EF	Checked by: RF	Version: V1
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KEY

Site Boundary

5km Study Area

Cultural Heritage Designations

Scheduled Monument

A Listed Building

B Listed Building

C Listed Building

Ecological & Ornithological Designations

Special Protection Area

Special Area of Conservation

Marine Protection Area

Biological Site of Special Scientific Interest



RSPB Reserve

Geological Designations

Geological Conservation Review

0 1 2 km

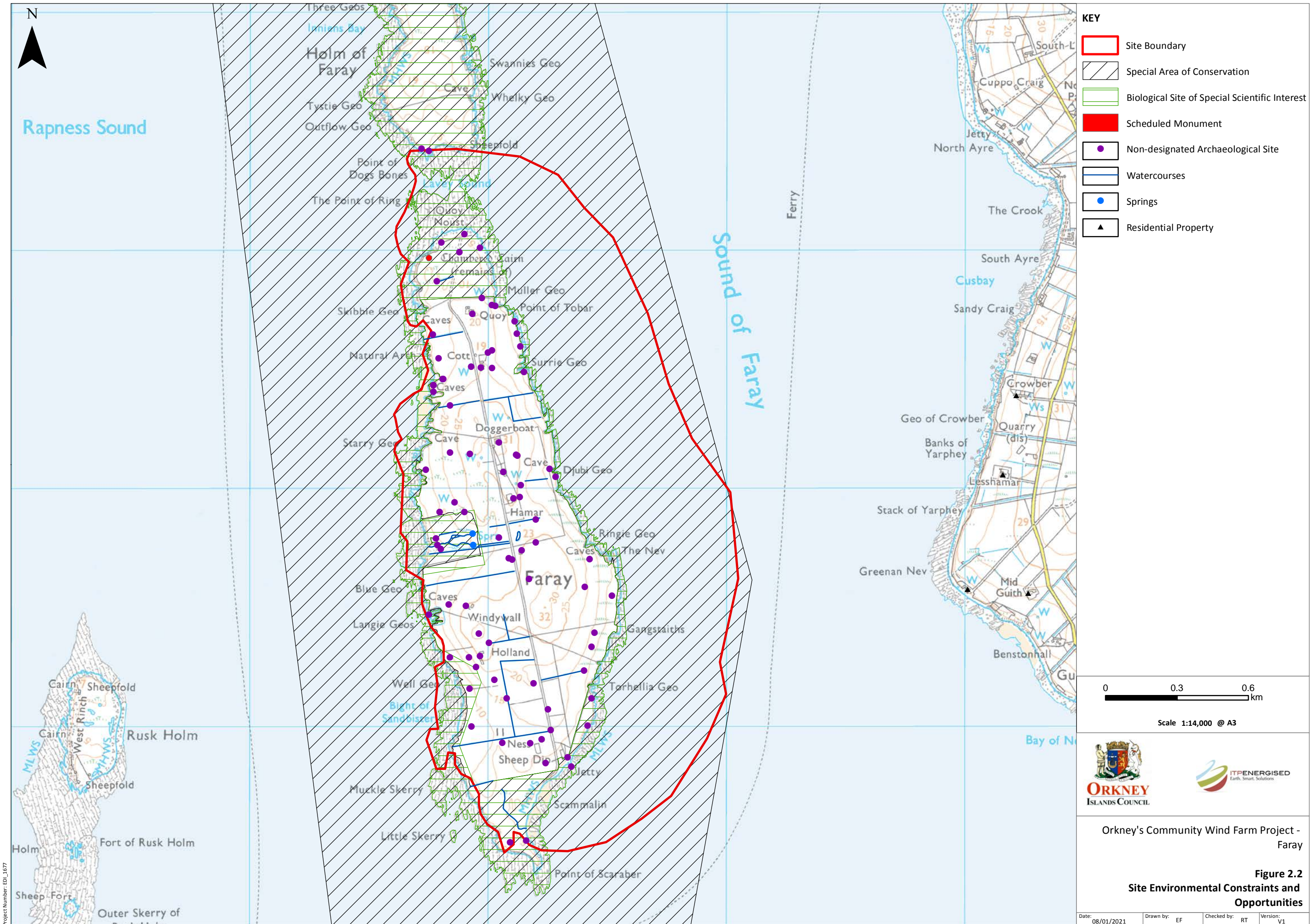
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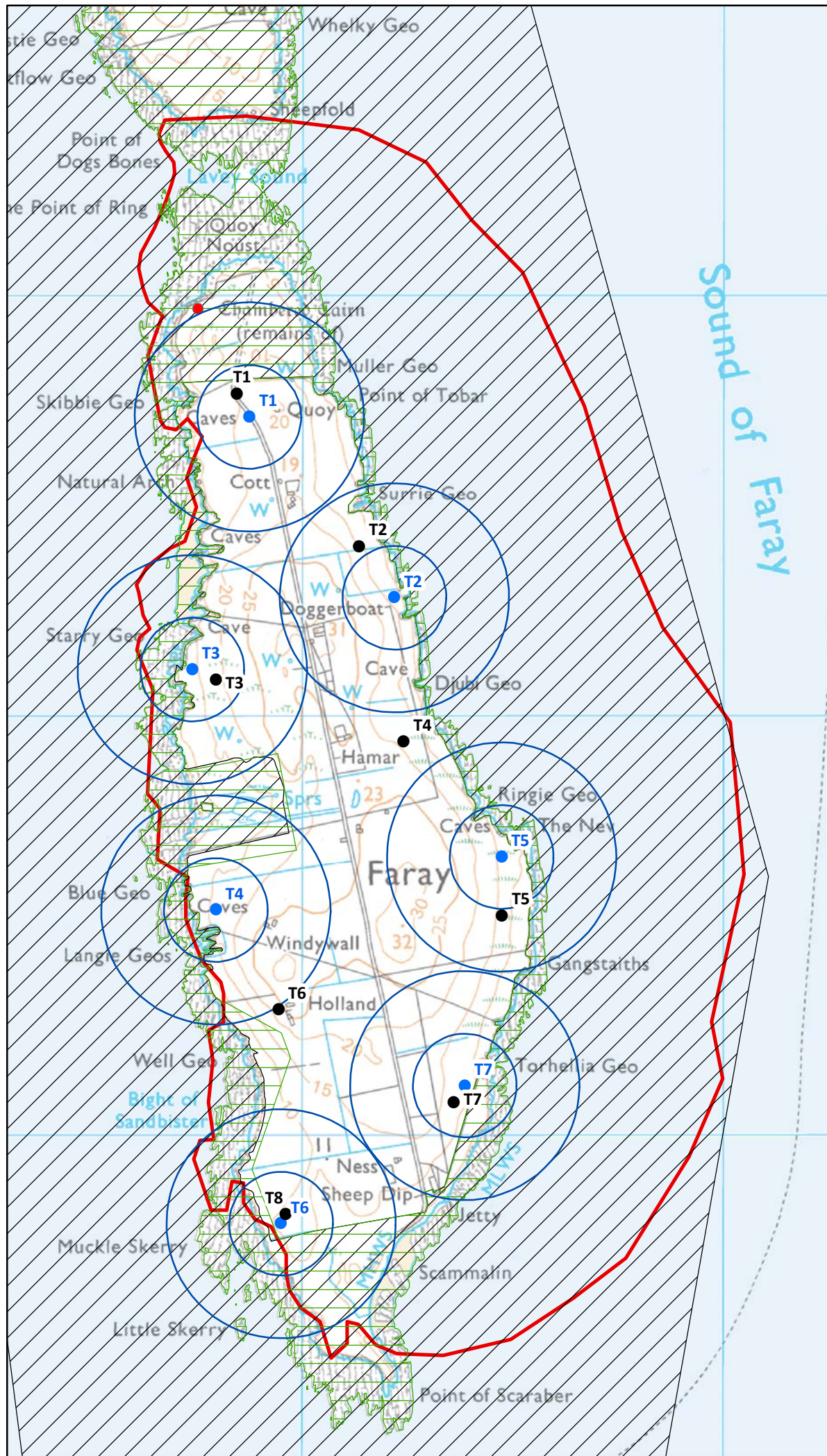
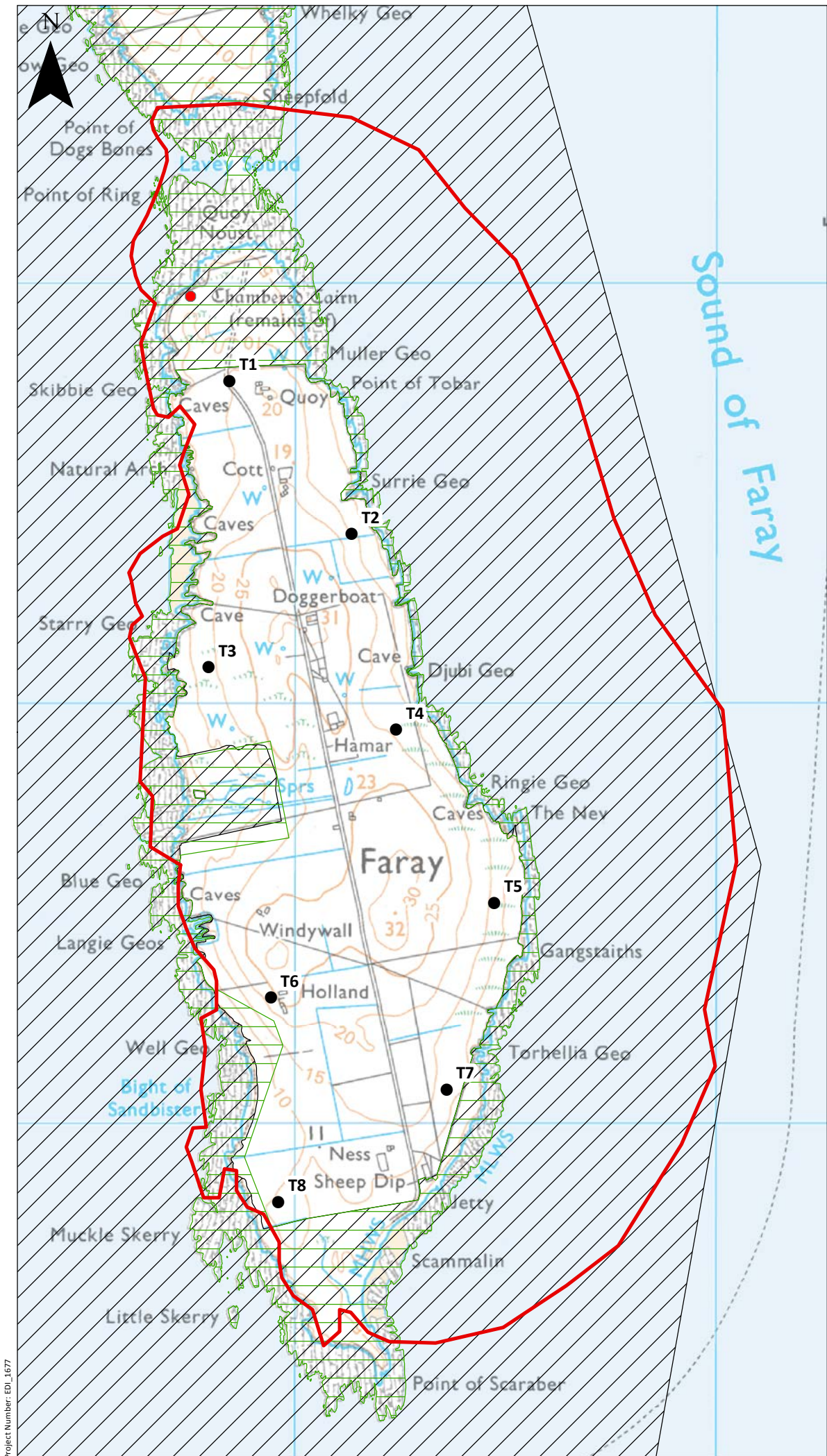


Orkney's Community Wind Farm Project - Faray


Figure 2.1
Environmental Designations Outwith the Site Boundary


Date: 08/01/2021	Drawn by: EF	Checked by: RT	Version: V1
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



KEY


 Site Boundary


 Turbine Layout A (EIA Scoping Report)


 Turbine Layout B


 T1 Turbine Layout A Identifier

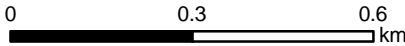
 T1 Turbine Layout B Identifier

 Turbine Layout B Separation Circles



 Special Area of Conservation

 Biological Site of Special Scientific Interest

 Scheduled Monument



Scale 1:12,500 @ A3



Orkney's Community Wind Farm Project - Faray

Figure 2.3
Turbine Layouts A & B

Date: 08/01/2021

Drawn by: EF

Checked by: RT

Version: V1




KEY

- Site Boundary
- Turbine Layout B
- Turbine Layout C
- Turbine Layout D
- Turbine Layout B Identifier
- Turbine Layout C Identifier
- Turbine Layout D Identifier
- Turbine Layout C Separation Circles
- Turbine Layout D Separation Circles
- Special Area of Conservation
- Biological Site of Special Scientific Interest
- Scheduled Monument
- 68m Special Area of Conservation Buffer

0 0.3 0.6 km

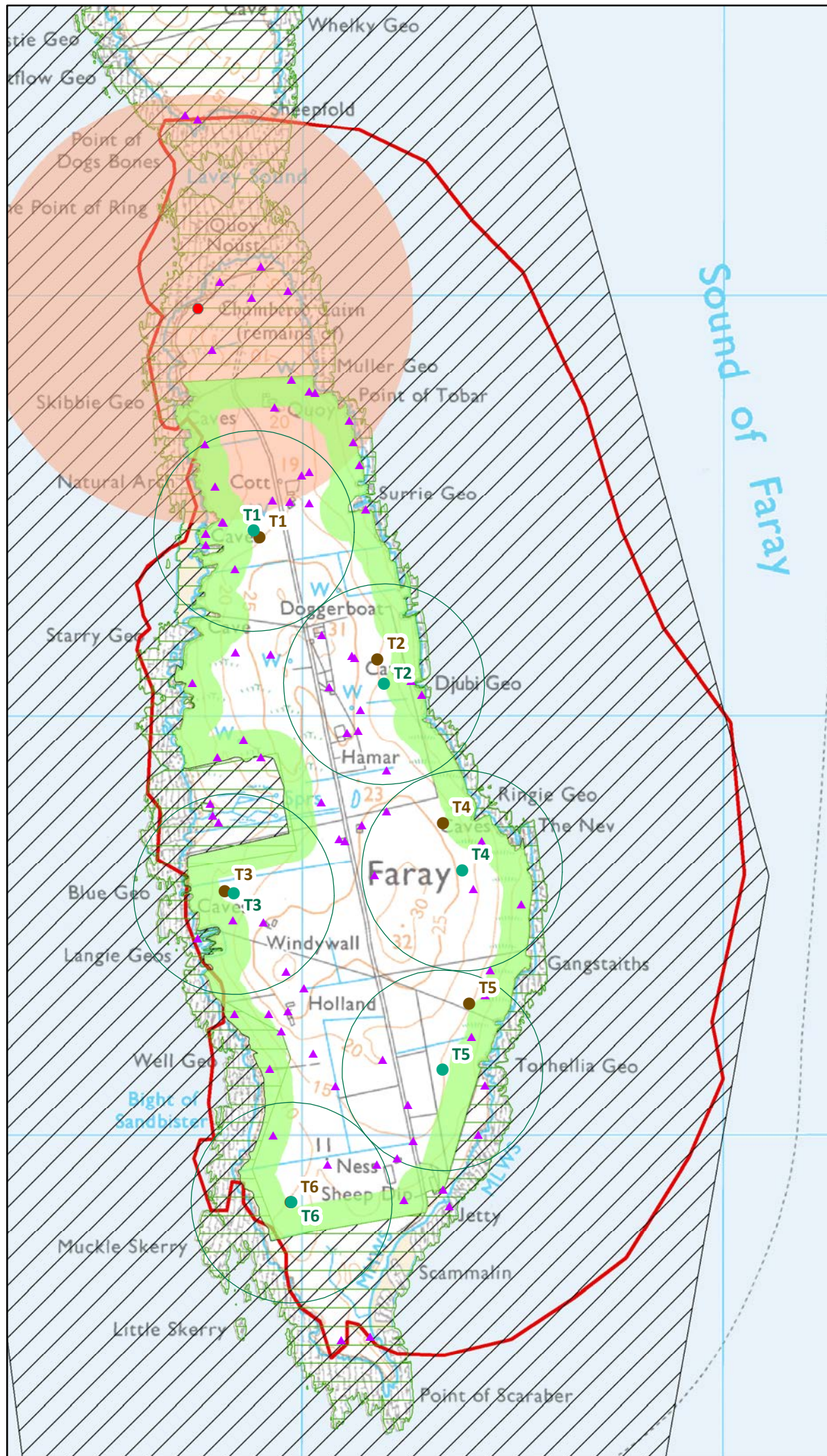
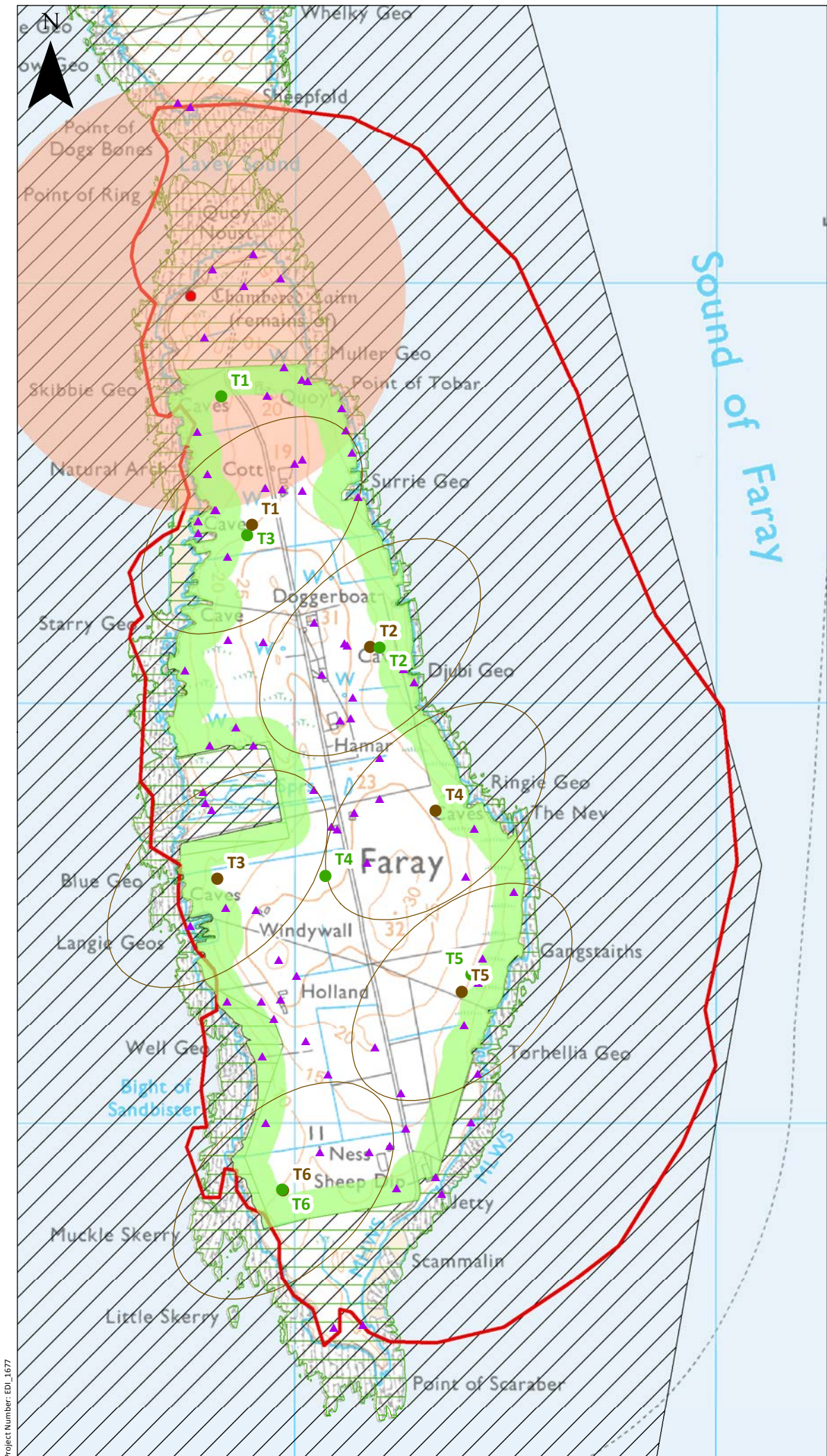
Scale 1:12,500 @ A3

Orkney's Community Wind Farm Project - Faray

Figure 2.4
Turbine Layouts B, C & D

Date: 08/01/2021	Drawn by: EF	Checked by: RT	Version: V1
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KEY

- Site Boundary
- Turbine Layout D
- Turbine Layout E
- Turbine Layout F
- Turbine Layout D Identifier
- Turbine Layout E Identifier
- Turbine Layout F Identifier
- Turbine Layout E Separation Circles
- Turbine Layout F Separation Circles
- Special Area of Conservation
- Biological Site of Special Scientific Interest
- 68m Special Area of Conservation Buffer
- Scheduled Monument
- 500m Scheduled Monument Buffer
- Non-designated Archaeological Site

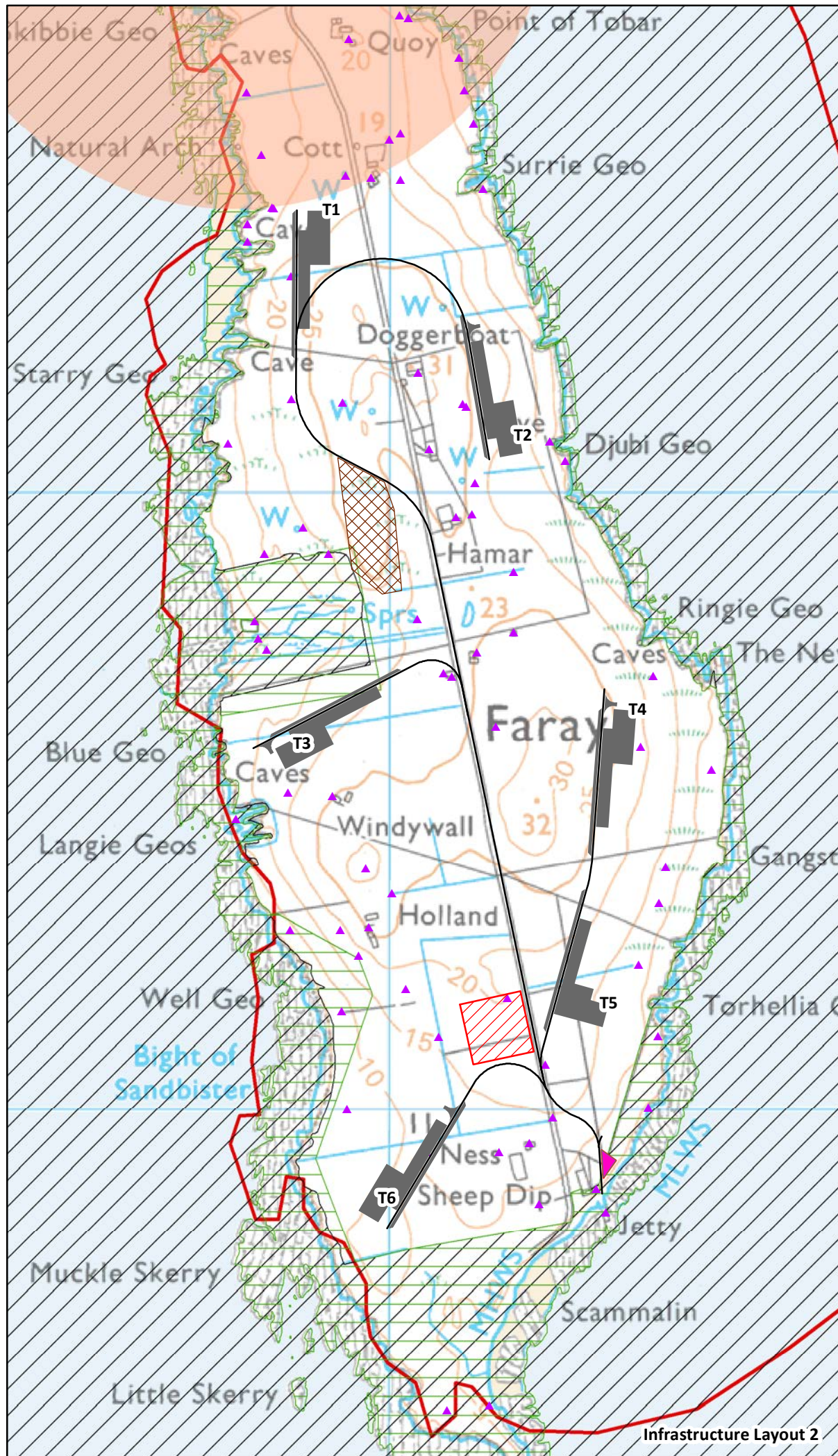
0 0.3 0.6 km

Scale 1:12,500 @ A3

Orkney's Community Wind Farm Project - Faray

Figure 2.5
Turbine Layouts D, E & F

Date: 08/01/2021	Drawn by: EF	Checked by: RT	Version: V1
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KEY

- Site Boundary
- Access Track
- Turbine Hardstandings
- Substation
- Temporary Construction Compound
- Temporary Borrow Pit Search Area
- T1 Turbine Identifier
- Special Area of Conservation
- Biological Site of Special Scientific Interest
- 500m Scheduled Monument Buffer
- Non-designated Archaeological Site

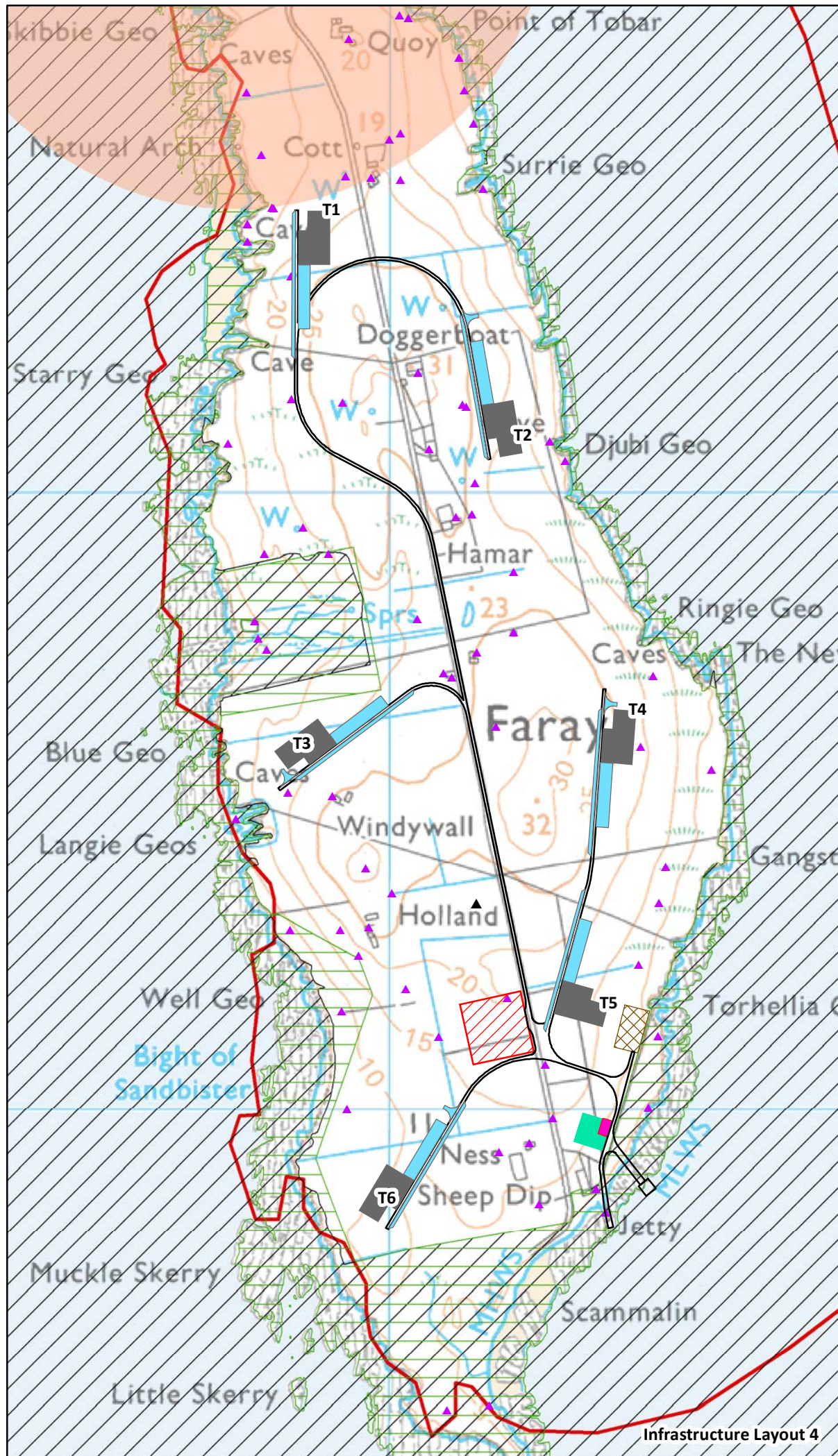
0 0.2 0.4 km

Scale 1:8,500 @ A3

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Figure 2.6
Infrastructure Layouts 1 & 2

Date: 08/01/2021	Drawn by: EF	Checked by: RT	Version: V1
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KEY

- Site Boundary
- Access Track (including marine access)
- Permanent Turbine Hardstandings
- Temporary_Hardstanding
- Meteorological Mast
- Substation
- Temporay Principal Construction Compound
- Temporary Pier Construction Compound
- Temporary Borrow Pit Search Area
- T1 Turbine Identifier
- Special Area of Conservation
- Biological Site of Special Scientific Interest
- 500m Scheduled Monument Buffer
- Non-designated Archaeological Site

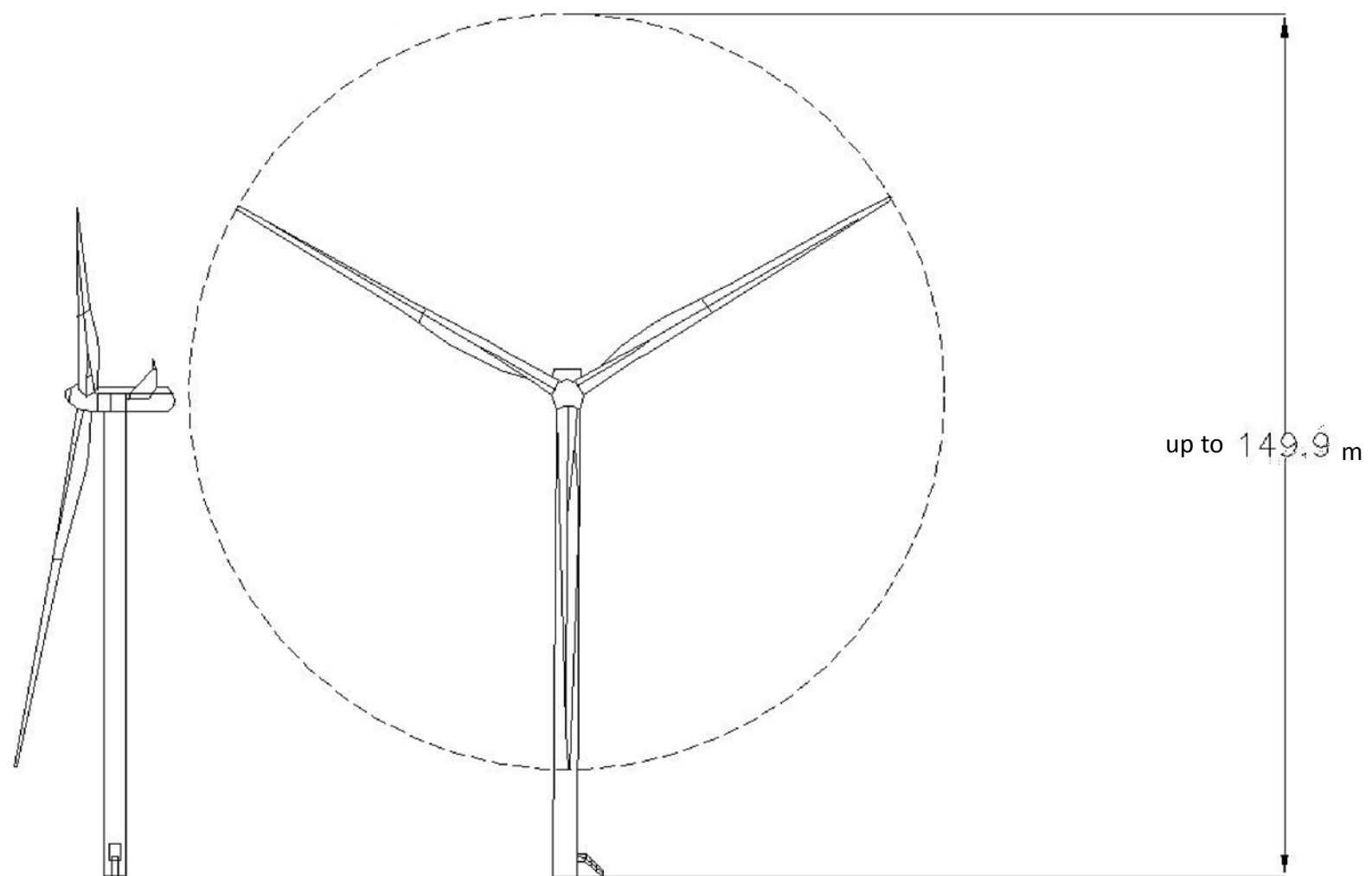
0 0.2 0.4 km

Scale 1:8,500 @ A3

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Figure 2.7
Infrastructure Layouts 3 & 4

Date: 21/01/2021	Drawn by: EF	Checked by: RT	Version: V1
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Not to scale.

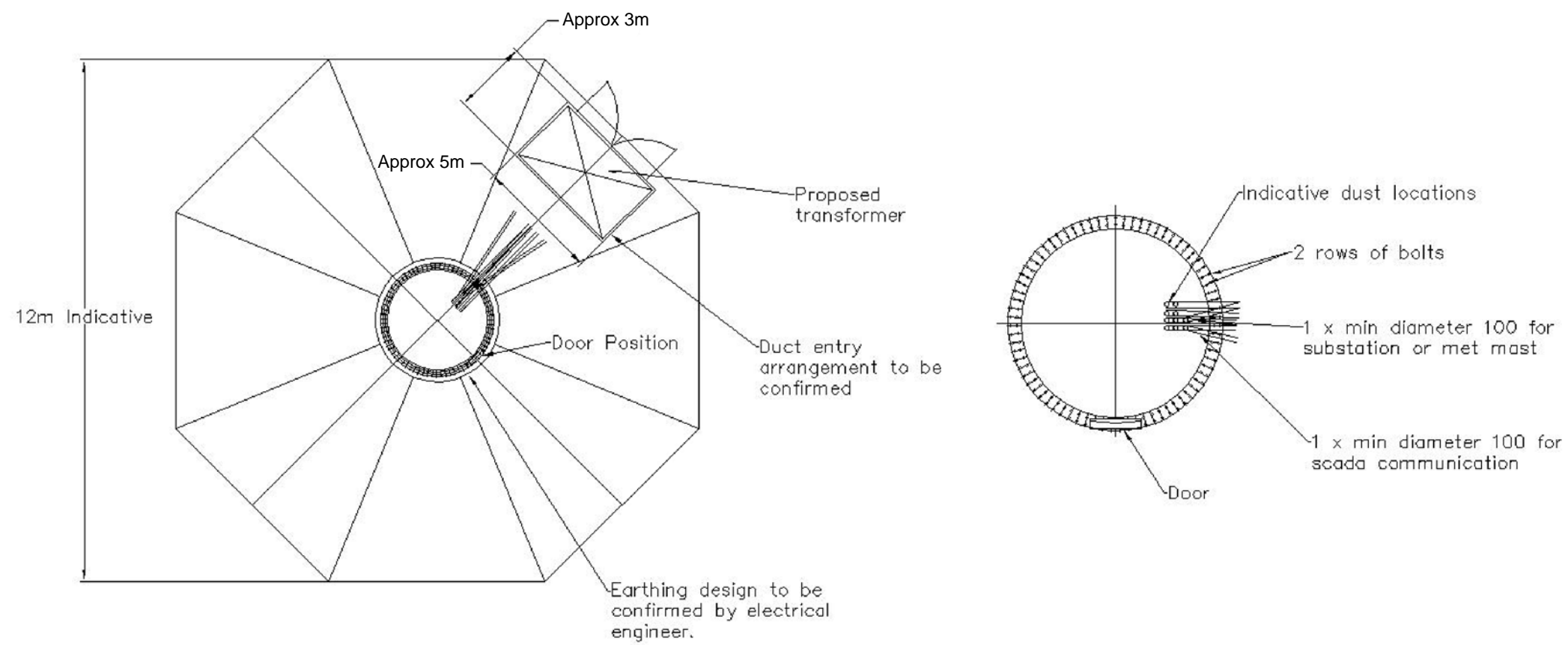


Orkney's Community Wind Farm Project -
Faray

EIA Report Figure 3.1

Turbine Elevation

Date: 14/01/2021	Drawn by: EF	Checked by: RF	Version: V1
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Not to scale.

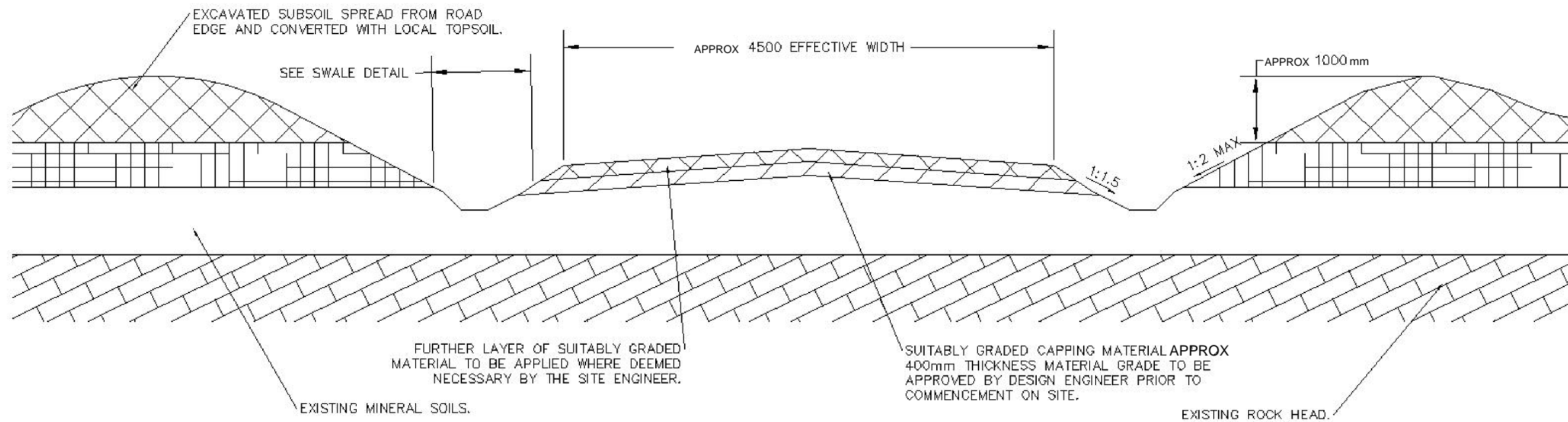


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 3.2

Typical Turbine Foundation

Date: 14/01/2021	Drawn by: EF	Checked by: RF	Version: V1
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TYPICAL TRACK FORMATION ON OVERBURDEN SOIL

Not to scale.

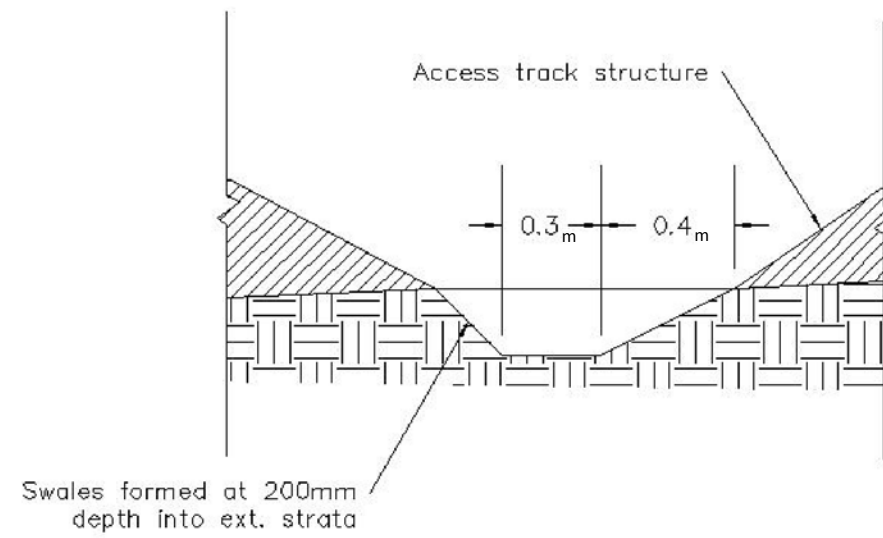


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 3.4

Access Track Cross-Section

Date: 14/01/2021	Drawn by: EF	Checked by: RF	Version: V1
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Not to scale.



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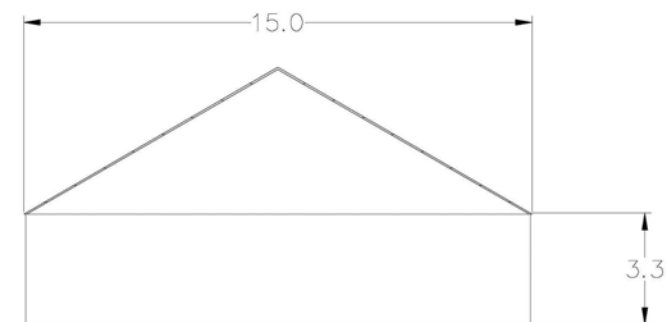
EIA Report Figure 3.5

Typical Drainage Design

Date: 14/01/2021	Drawn by: EF	Checked by: RF	Version: V1
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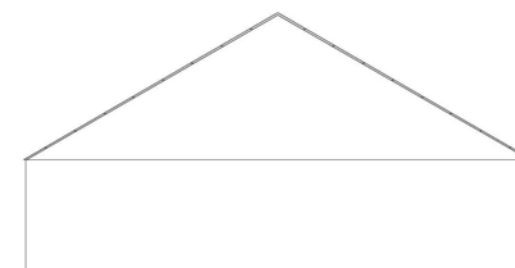
Front Elevation



End Elevation (RHS)



Rear Elevation



End Elevation (LHS)

Not to Scale

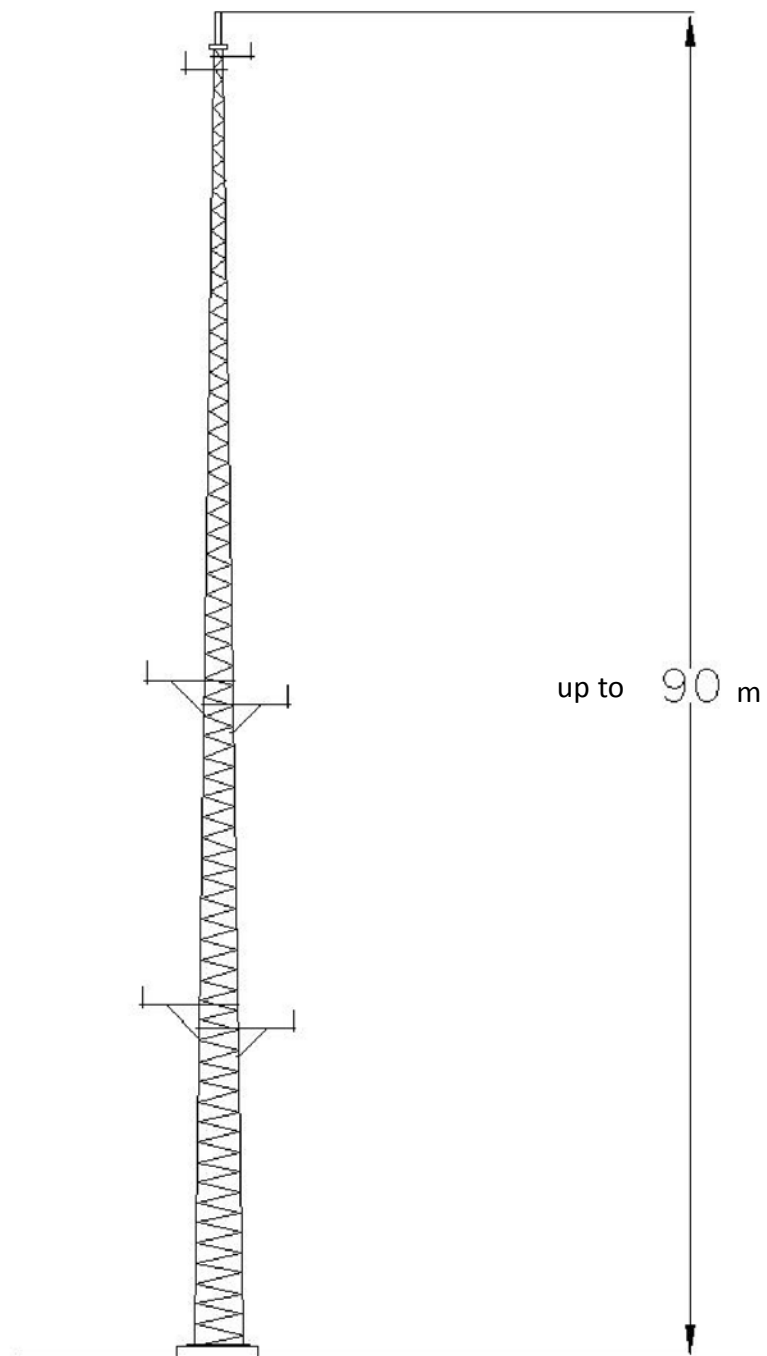


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 3.6

Indicative Substation Elevation

Date: 14/01/2021	Drawn by: EF	Checked by: RF	Version: V1
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Not to scale.

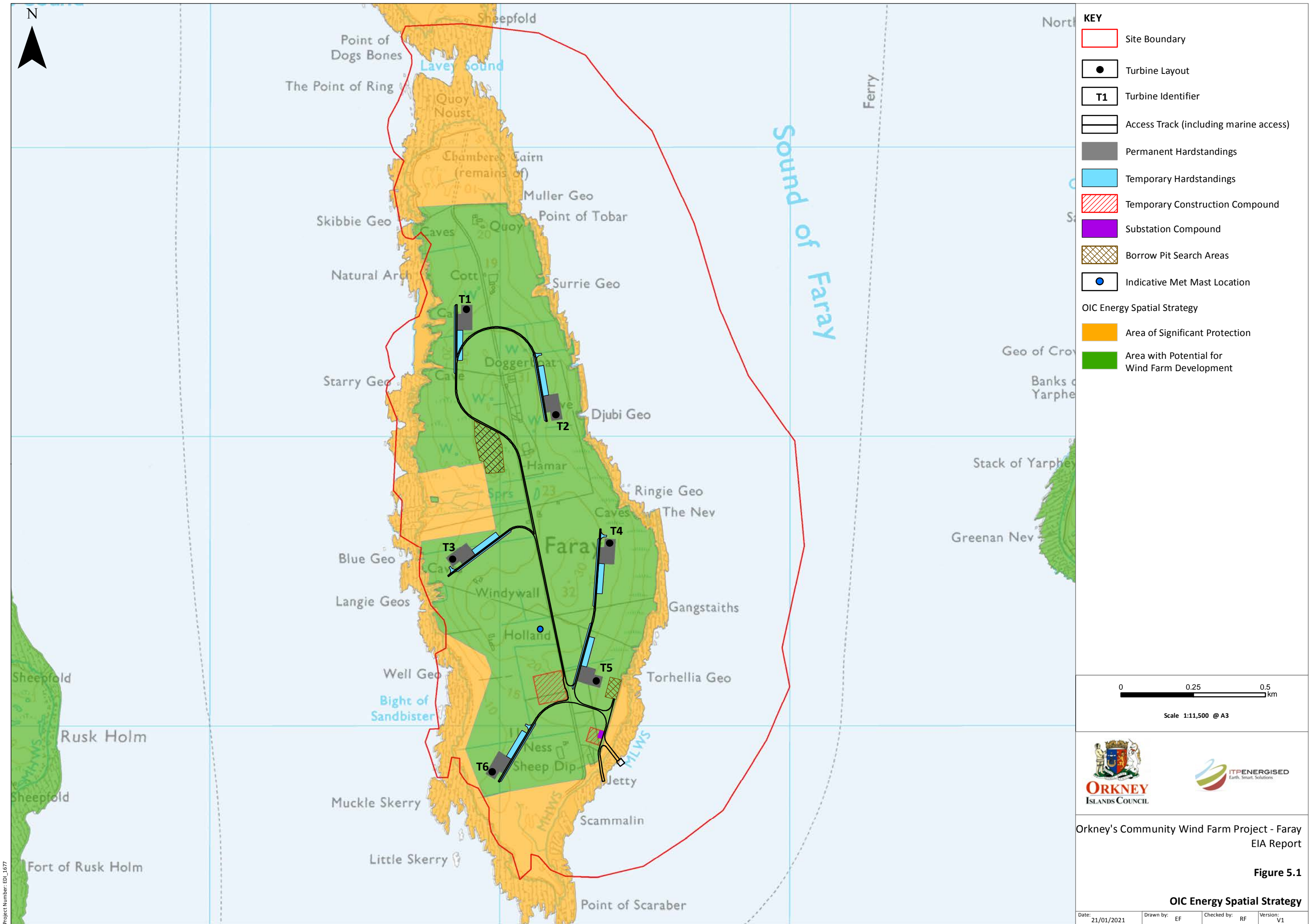


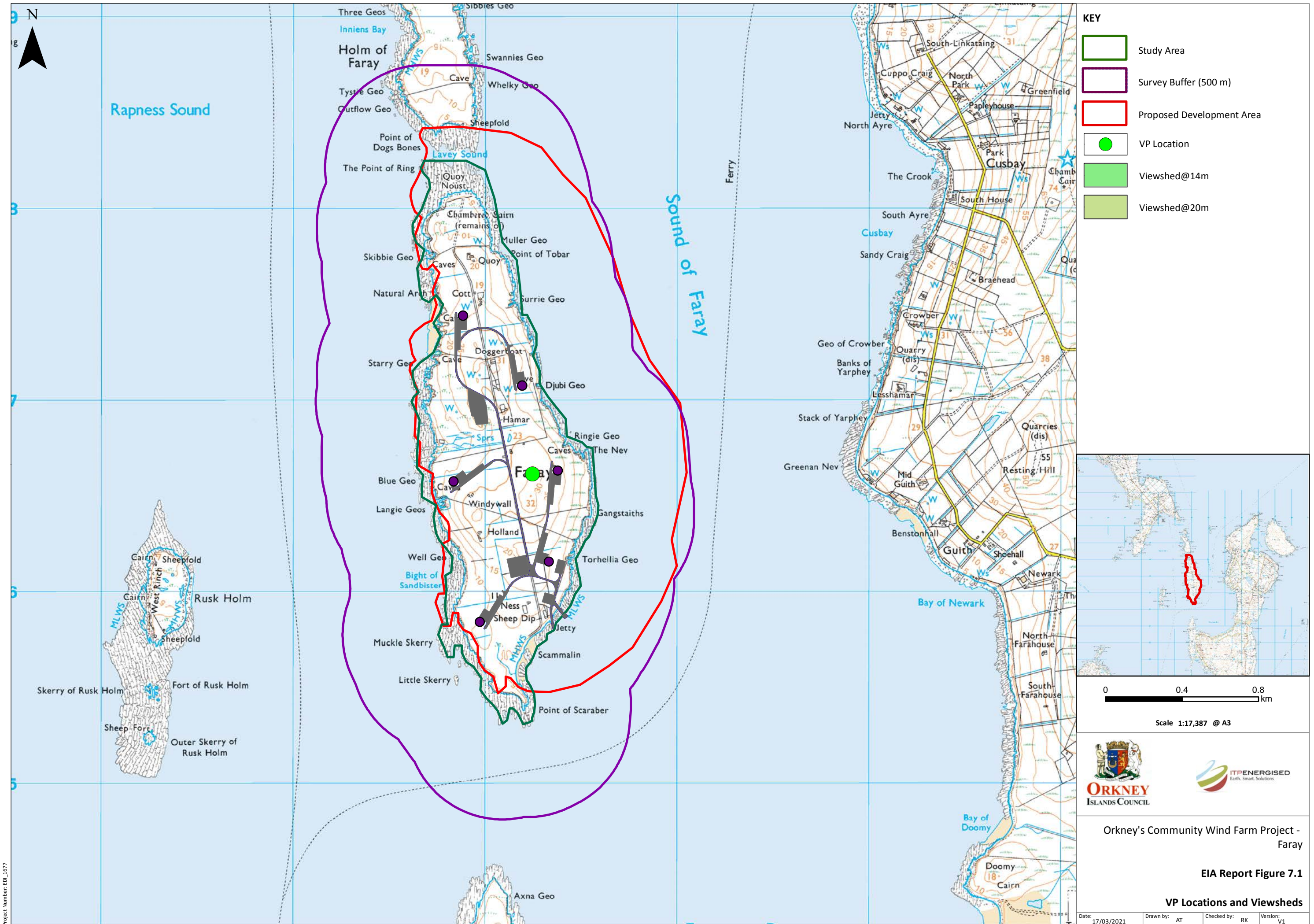
Orkney's Community Wind Farm Project - Faray

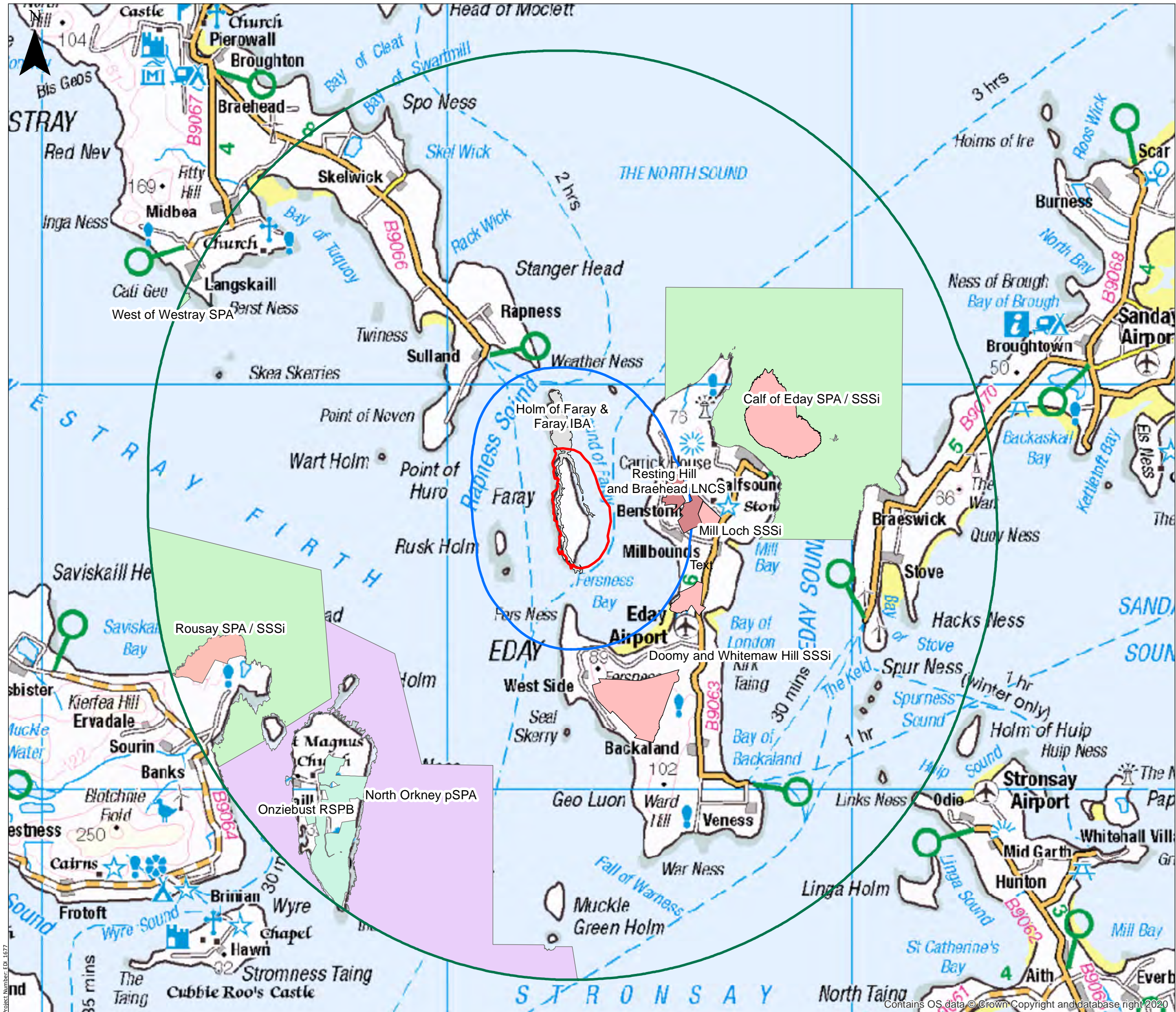
EIA Report Figure 3.7

Typical Met Mast Elevation

Date:	14/01/2021	Drawn by:	EF	Checked by:	RF	Version:	V1
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KEY

Proposed Development Boundary

Survey Buffer (2 km)

Survey Buffer (10 km)

Special Protection Area (SPA)

Proposed Special Protection Area (pSPA)

Site of Special Scientific interest (SSSi)

RSPB Reserve

Local Nature Conservation Sites (LNCS)

RSPB Important Bird Area (IBA)

024

km

Scale 1:90,000 @ A3

Orkney's Community Wind Farm Project - Faray

EIA Report Figure 7.2

Ornithological Designations

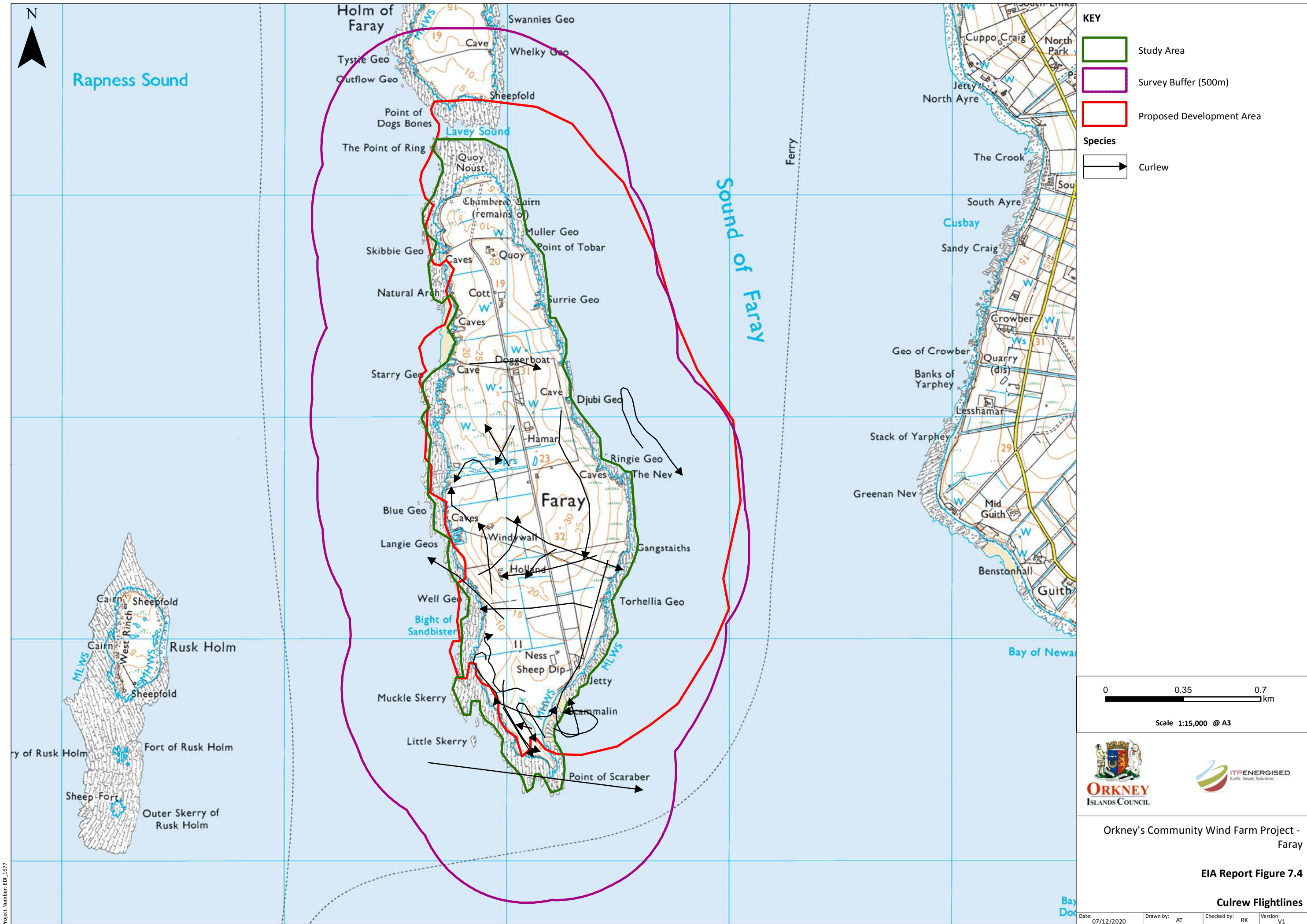
Date: 07/12/2020

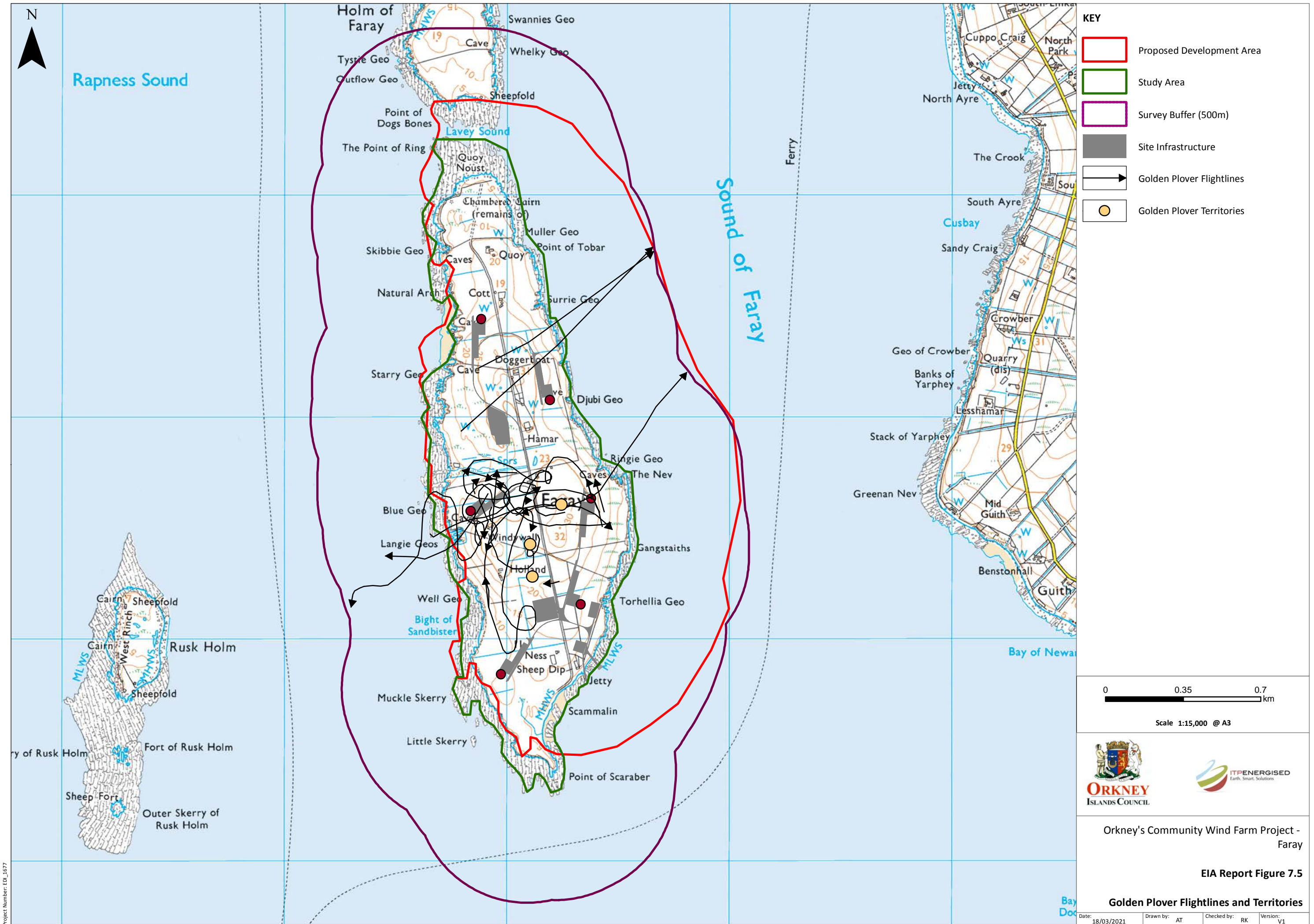
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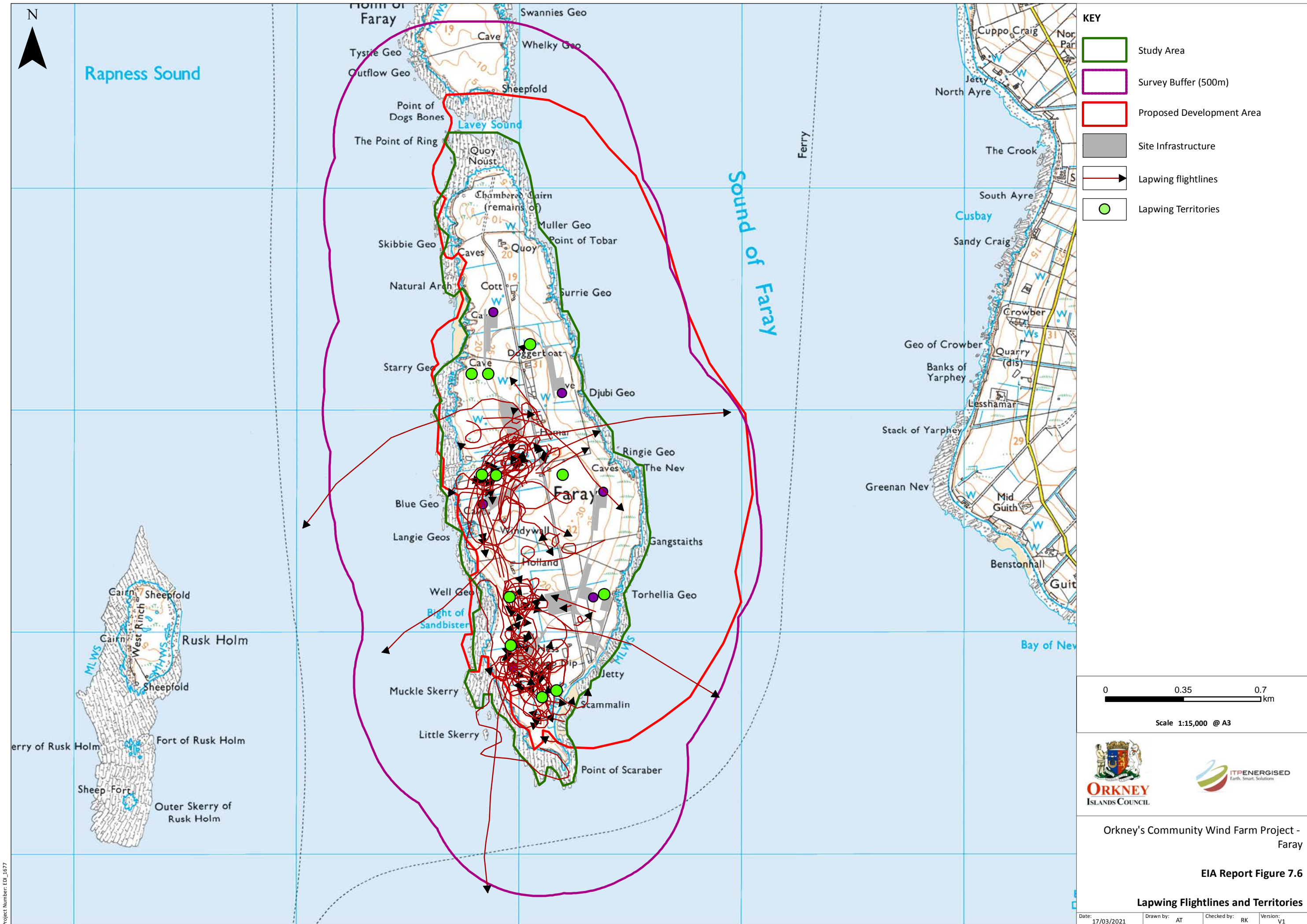
Checked by: RK

Version: V1





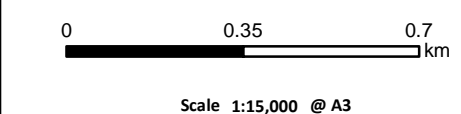






KEY

- Site Boundary
- Survey Buffer (500m)
- Proposed Development Area
- Site Infrastructure
- Oystercatcher Flightlines
- Oystercatcher Territories

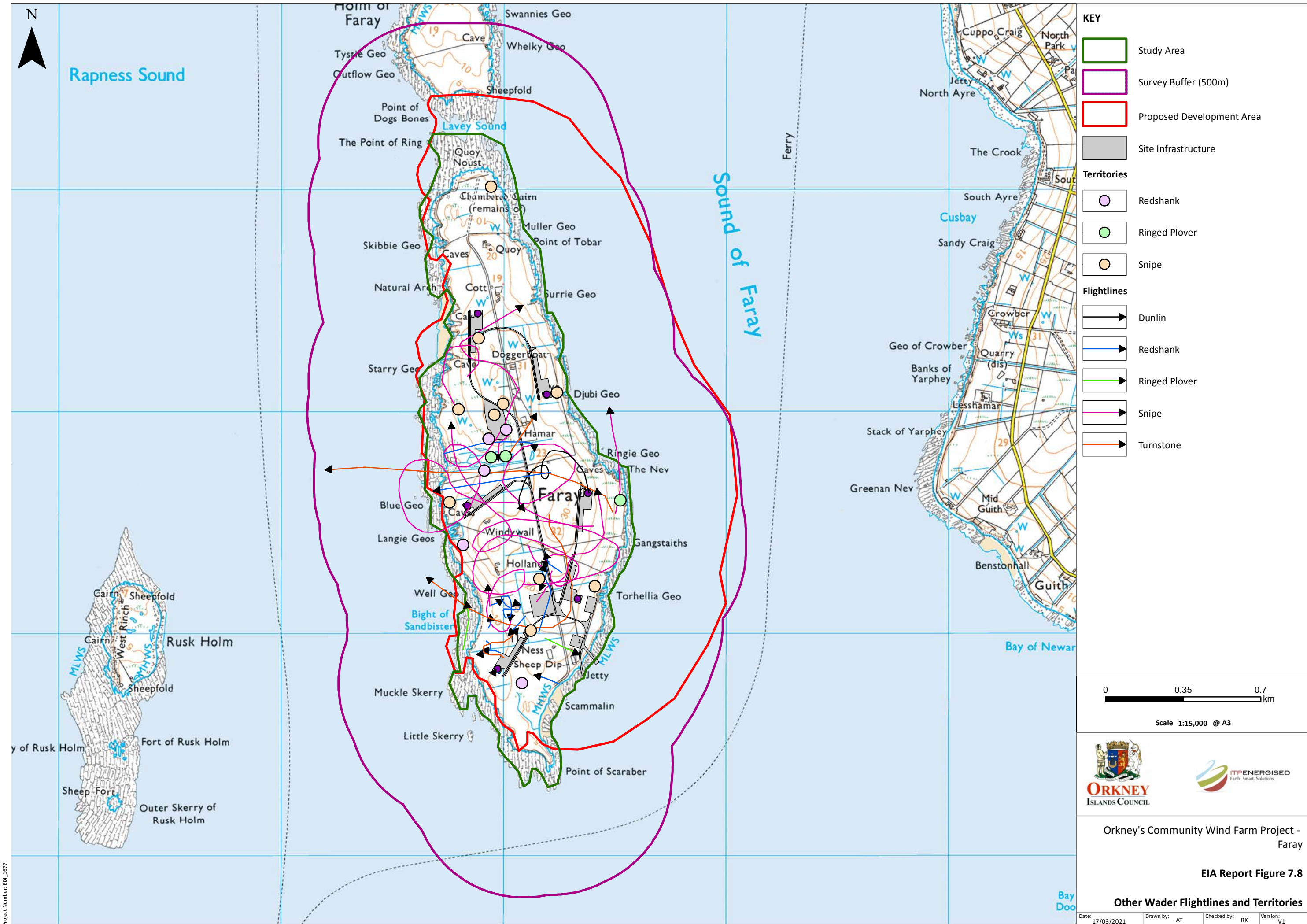


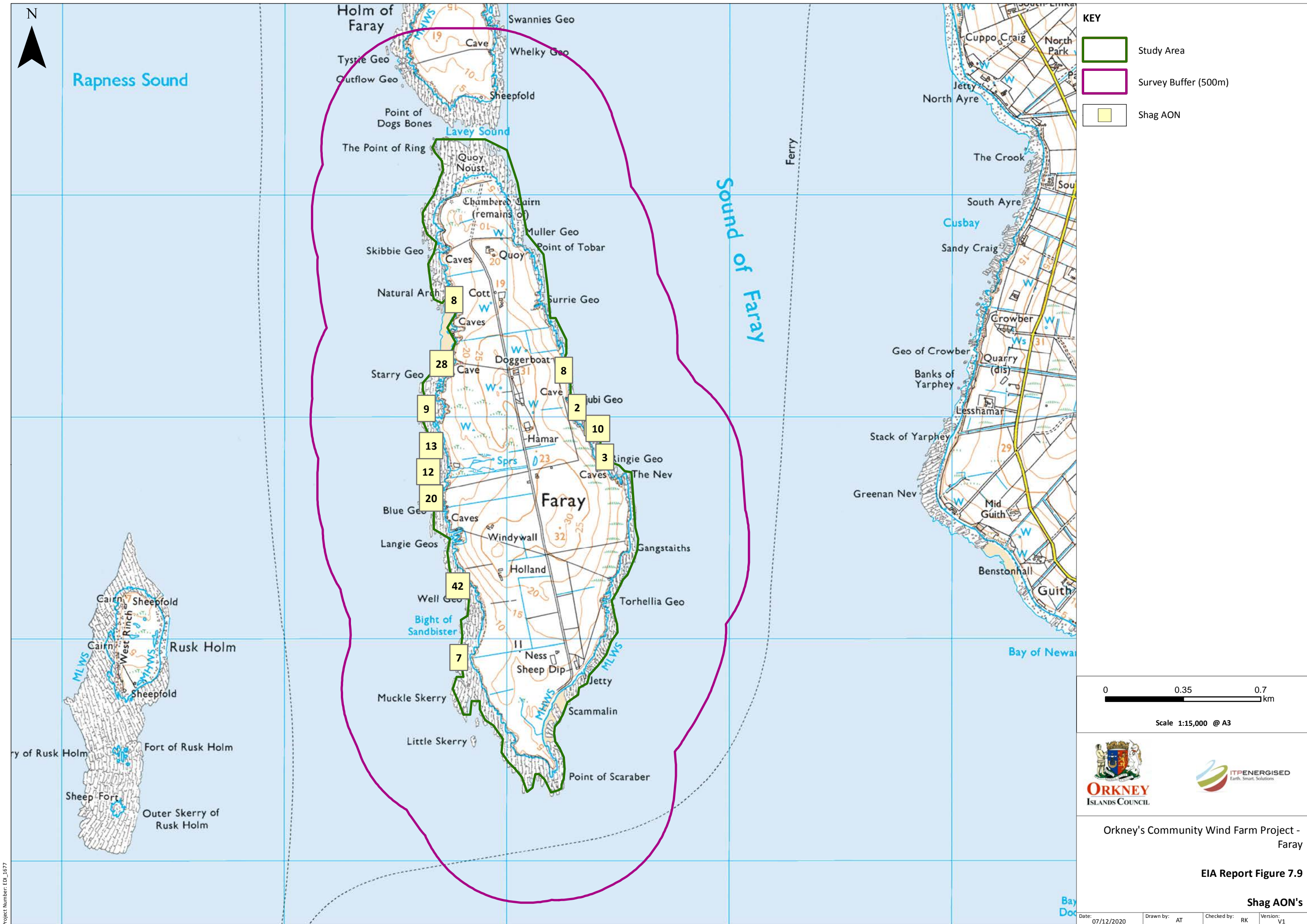
Orkney's Community Wind Farm Project - Faray

EIA Report Figure 7.7

Oystercatcher Flightlines and Territories

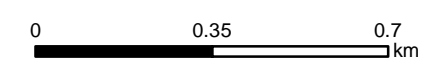
Date: 17/03/2021	Drawn by: AT	Checked by: RK	Version: V1
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KEY

- Study Area
- Survey Buffer (500m)
- Shag AON



Scale 1:15,000 @ A3

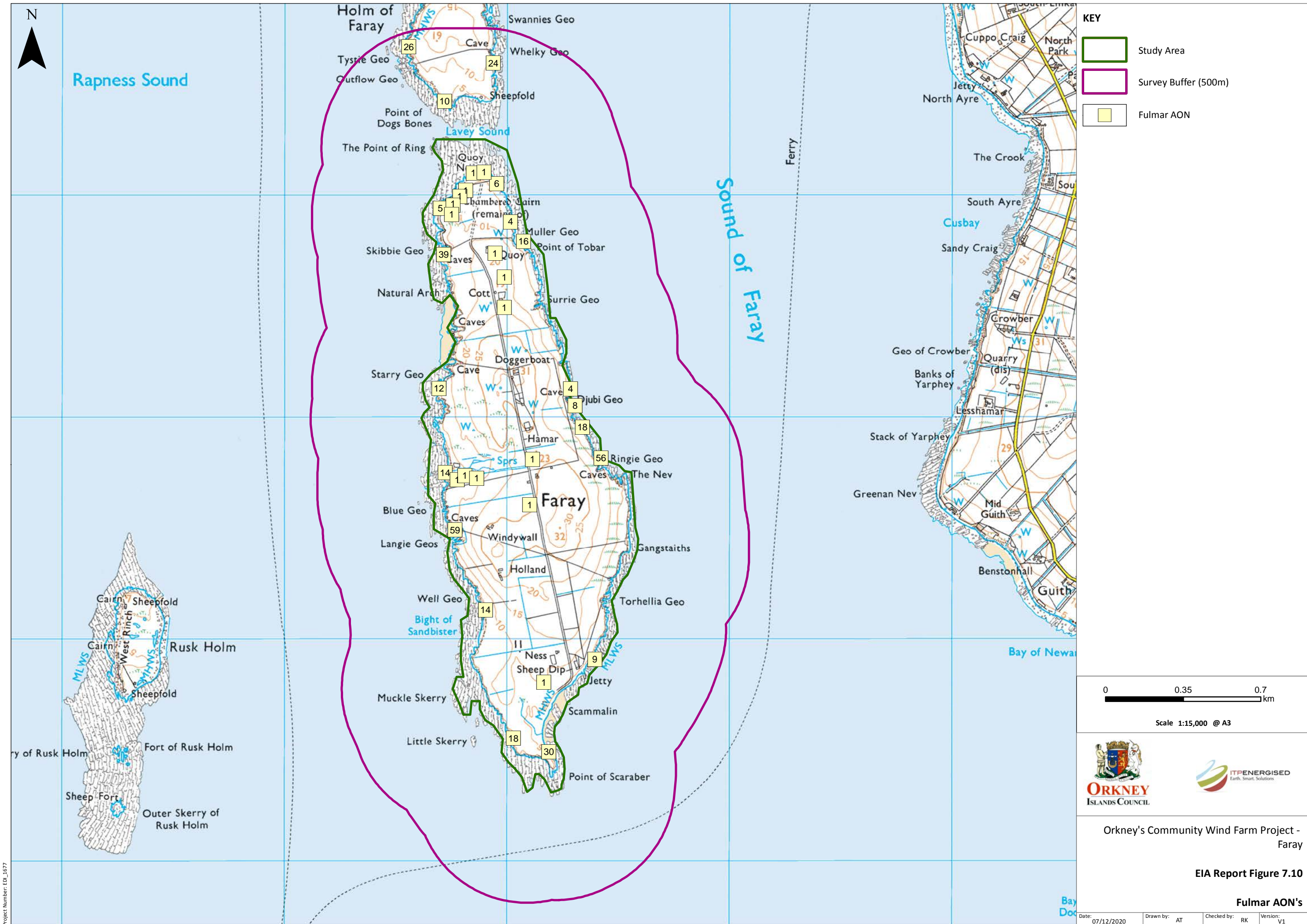


Orkney's Community Wind Farm Project - Faray

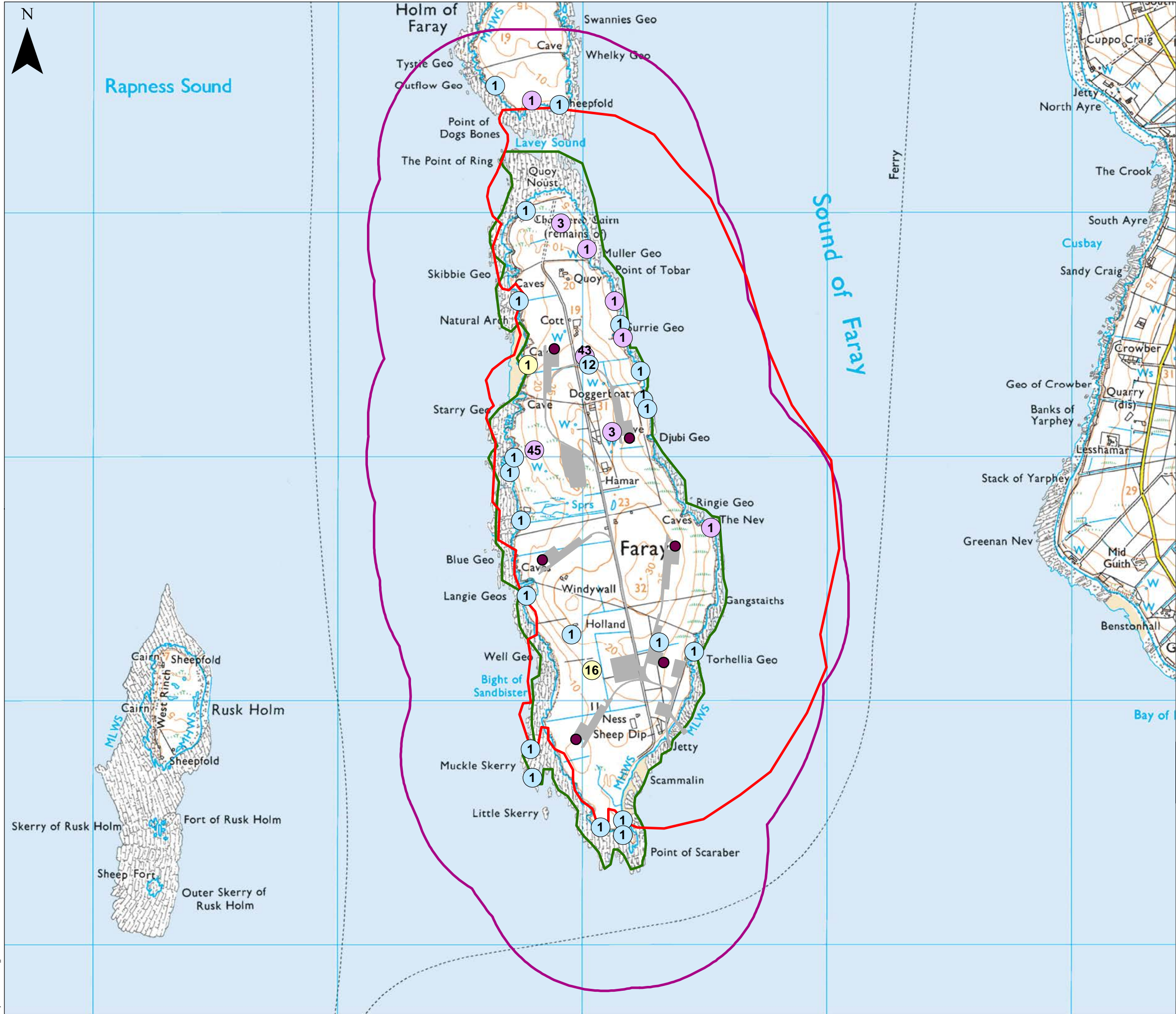
EIA Report Figure 7.9

Shag AON's

Date: 07/12/2020	Drawn by: AT	Checked by: RK	Version: V1
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Project Number: EDI_1677

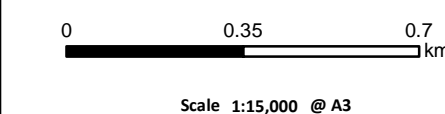


KEY

- Study Area
- Survey Buffer (500m)
- Proposed Development Area
- Site Infrastructure

Gull AONs

- Common Gull
- Greater Black-backed Gull
- Herring Gull

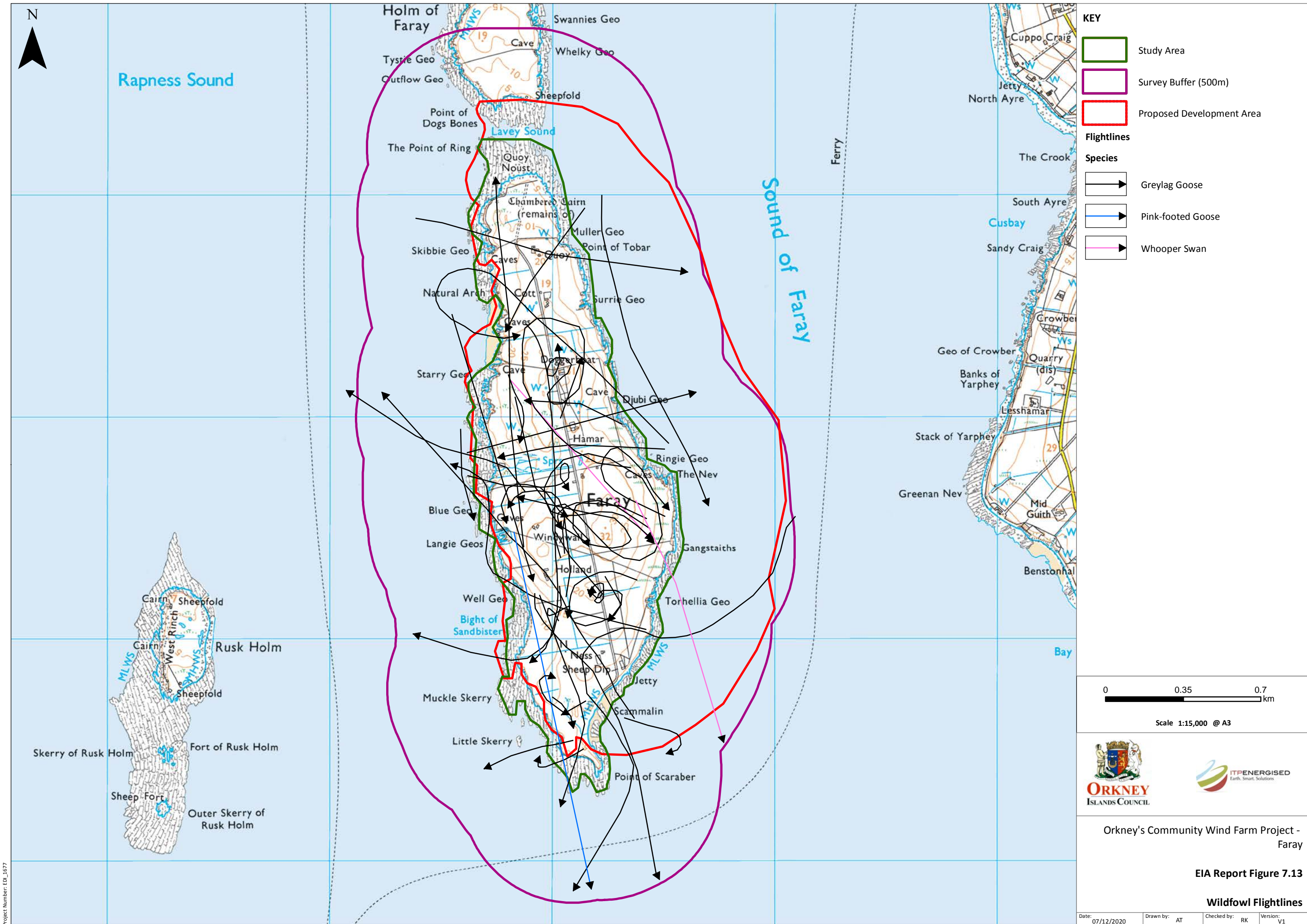


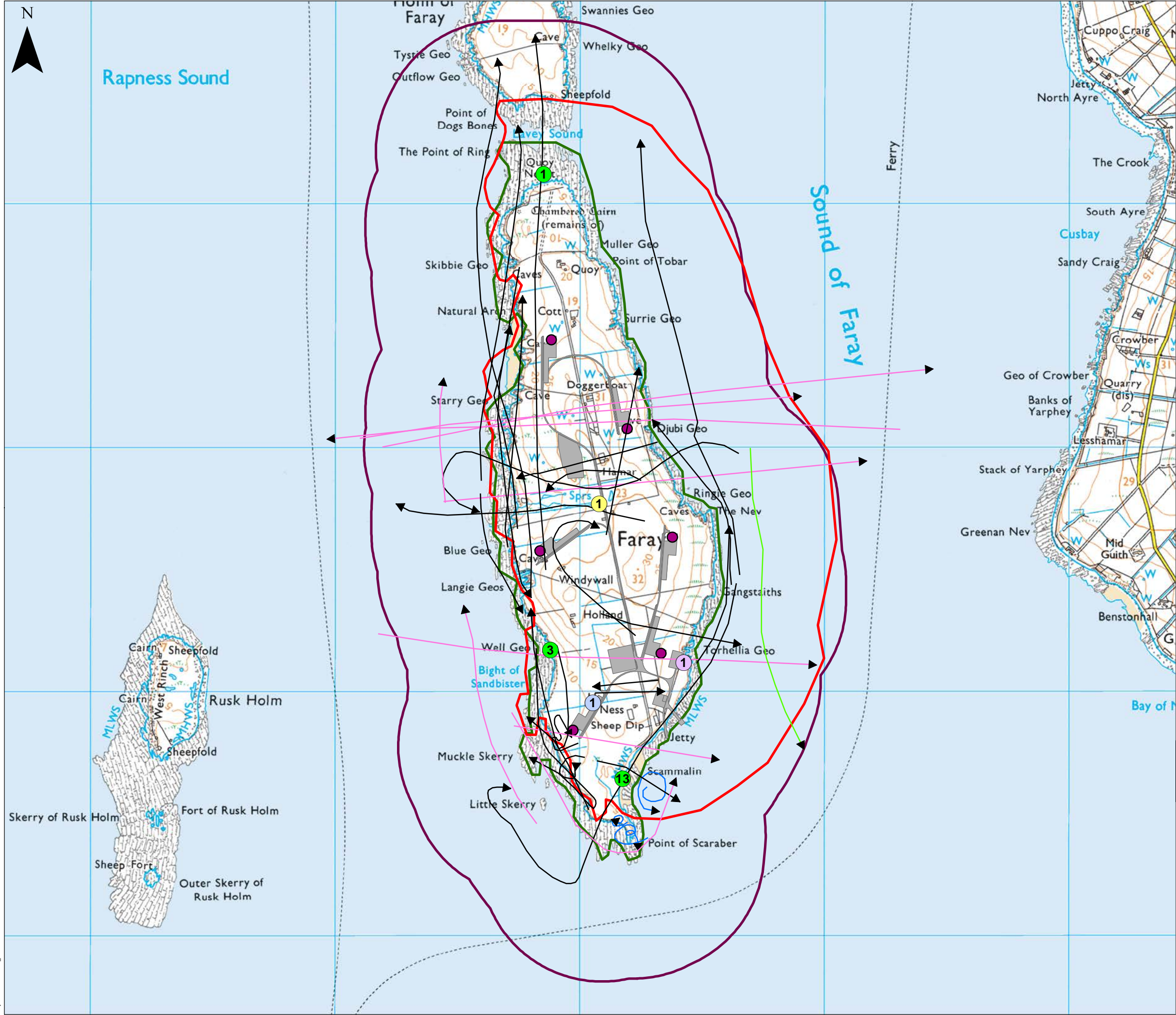
Orkney's Community Wind Farm Project - Faray

EIA Report Figure 7.12

Gull AON's

Date: 17/03/2021	Drawn by: AT	Checked by: RK	Version: V1
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KEY

- Study Area
- Survey Buffer (500m)
- Proposed Development Area
- Site Infrastructure

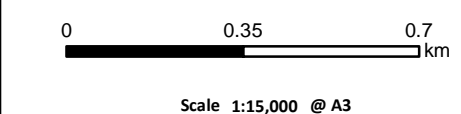
Flightlines

Species

- Arctic Skua
- Arctic Tern
- Great Skua
- Red-throated Diver

Territories

- Arctic Tern
- Greylag Goose
- Great Skua
- Raven



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EIA Report Figure 7.14

Other Species Flightlines and Territories

Date: 17/03/2021	Drawn by: AT	Checked by: RK	Version: V1
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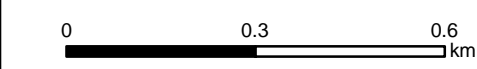


KEY

- Study Area
- Proposed Development Area
- Proposed areas for petrel wall
- Nest site to move

Grazing Control Fenceline

- Permanent
- Temporary
- Sheep Free Area April - June



Scale 1:12,000 @ A3

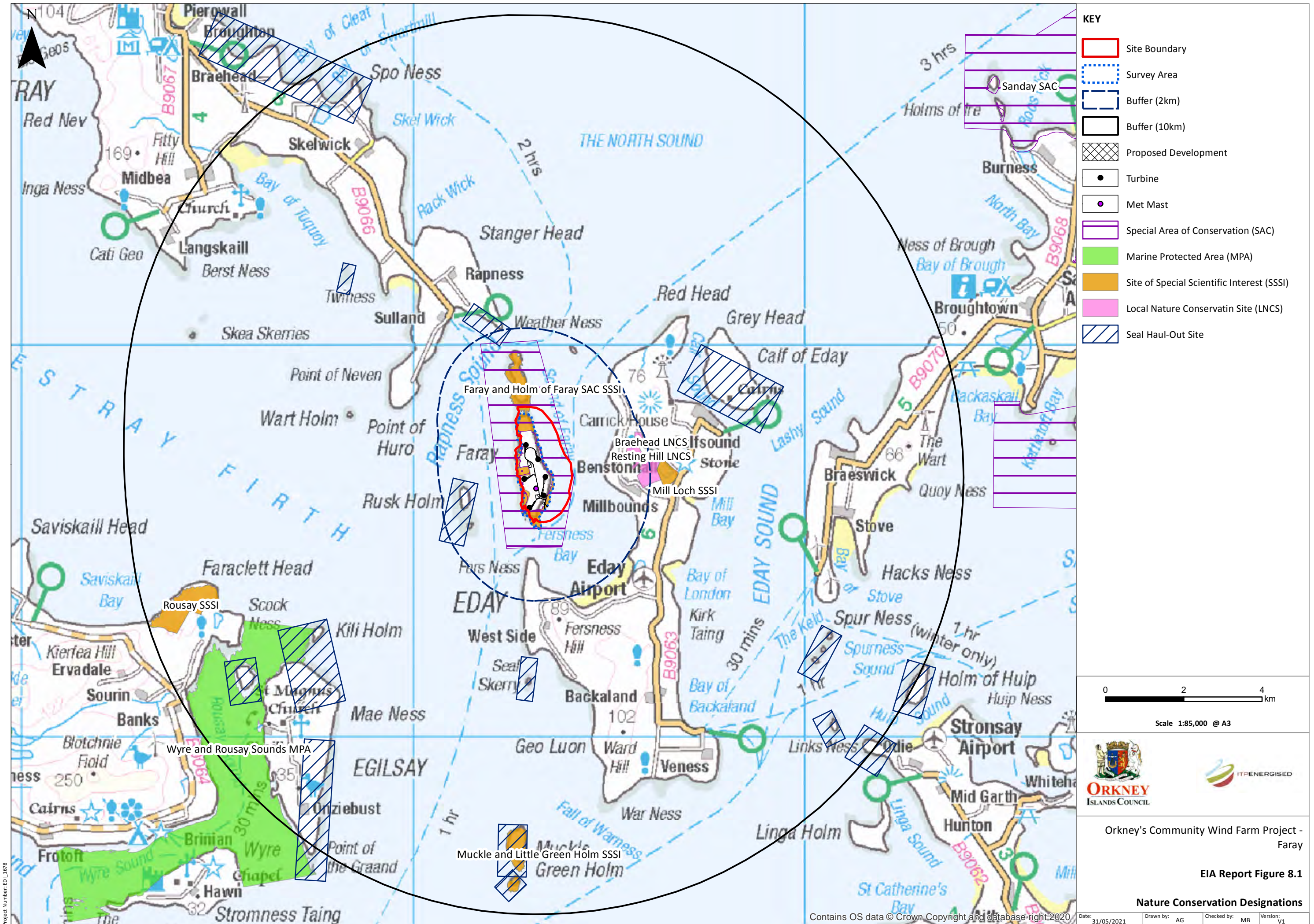


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 7.15

Proposed Mitigation

Date: 08/01/2021	Drawn by: AT	Checked by: RK	Version: V1
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- KEY**
- Site Boundary
 - Survey Area
 - Buffer (2km)
 - Buffer (10km)
 - Proposed Development
 - Turbine
 - Met Mast
 - Special Area of Conservation (SAC)
 - Marine Protected Area (MPA)
 - Site of Special Scientific Interest (SSSI)
 - Local Nature Conservatin Site (LNCS)
 - Seal Haul-Out Site

0 2 4 km

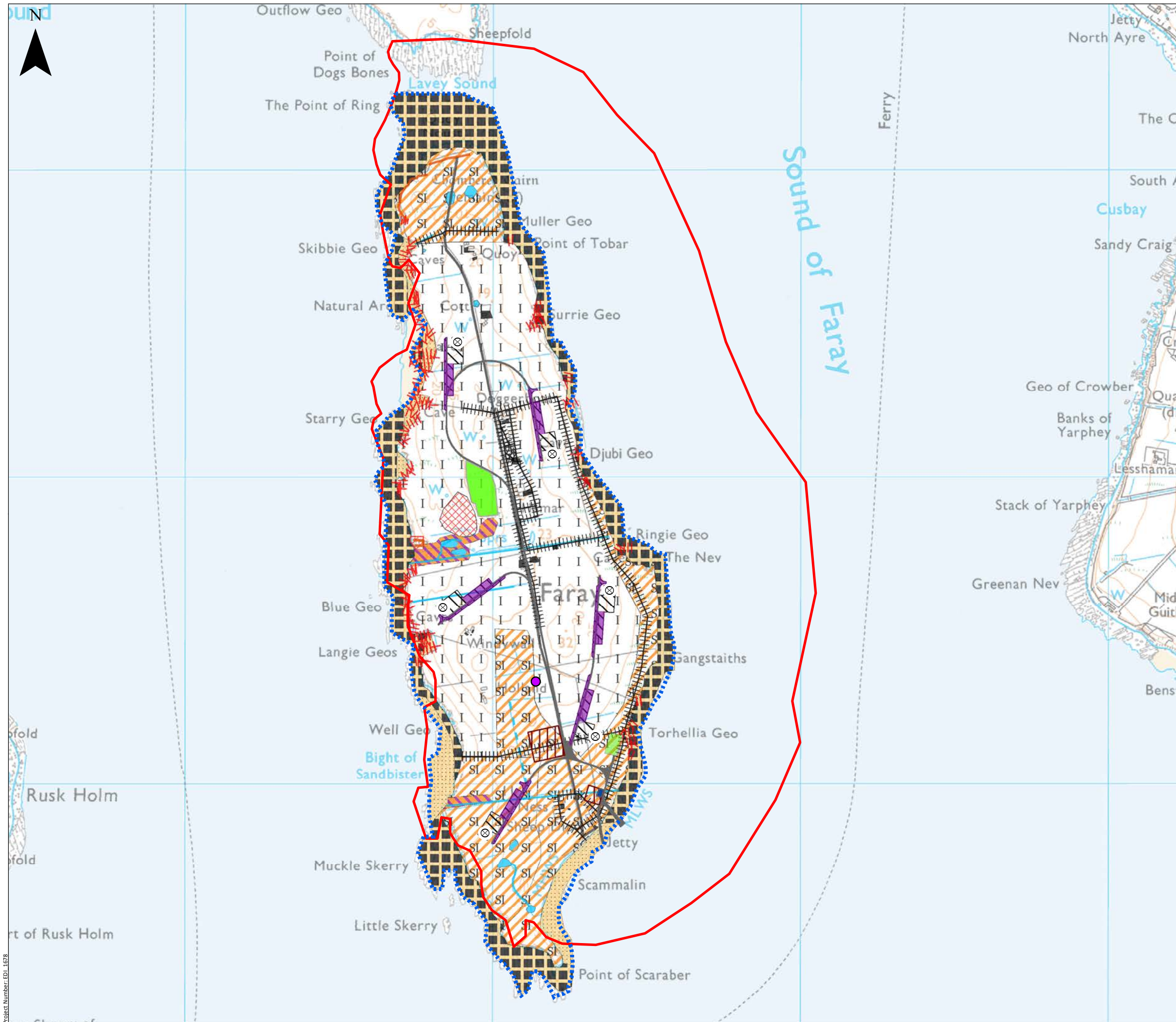
Scale 1:85,000 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 8.1

Nature Conservation Designations



KEY

Site Boundary

Survey Area

Turbine

Met Mast

Turbine Hardstanding

Substation

Track

Borrow Pit Search Areas

Temporary Hardstanding

Temporary Construction Compound

Phase 1 Habitats

Semi-improved acid grassland (B1.2)

Improved acid grassland (B4)

Marshy grassland (B5)

Standing water (G1)

Running Water (G2)

Intertidal mud/sand (H1.1)

Intertidal boulders/rocks (H1.3)

Hard Cliff (H8.1)

Exposed rock (inland) (I1.4.2)

Fence (J2.4)

Wall (J2.5)

Dry ditch (J2.6)

Building (J3.6)



Road (J5)

Graveyard

00.30.6

km

Scale 1:12,000 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 8.2

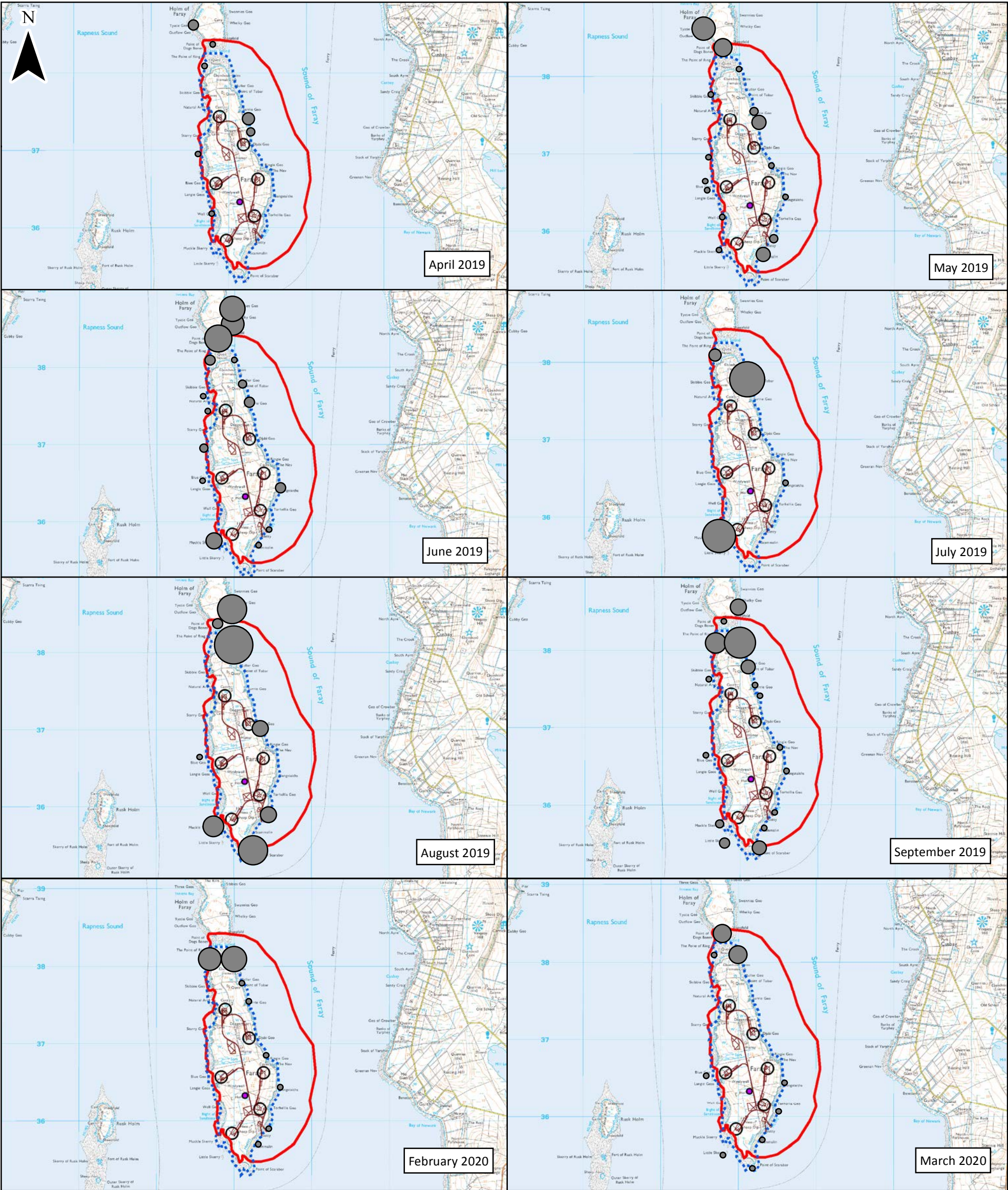
Phase 1 Habitats

Date: 26/01/2021

Drawn by: AG

Checked by: MF

Version: V1



KEY

- Site Boundary
- Survey Area
- Proposed Development
- Turbine
- Met Mast

Number of Seals

1 - 5	36 - 40	71 - 75
6 - 10	41 - 45	81 - 85
11 - 15	46 - 50	91 - 95
16 - 20	51 - 55	161 - 165
21 - 25	61 - 65	
26 - 30	66 - 70	
31 - 35		

0 1 2 km

Scale 1:50,000 @ A3

ORKNEY ISLANDS COUNCIL

Orkney's Community Wind Farm Project - Faray

EIA Report Figure 8.4

Seal Survey Results

Date: 26/01/2021 Drawn by: AG Checked by: MB Version: v1



KEY



- Site Boundary
- Buffer (10km)
- Survey Area
- Turbine
- Met Mast
- Proposed Development

Spurness Wind Farm

- Turbine

0 0.25 0.5 1 1.5 2 2.5 km

Scale 1:83,000 @ A3

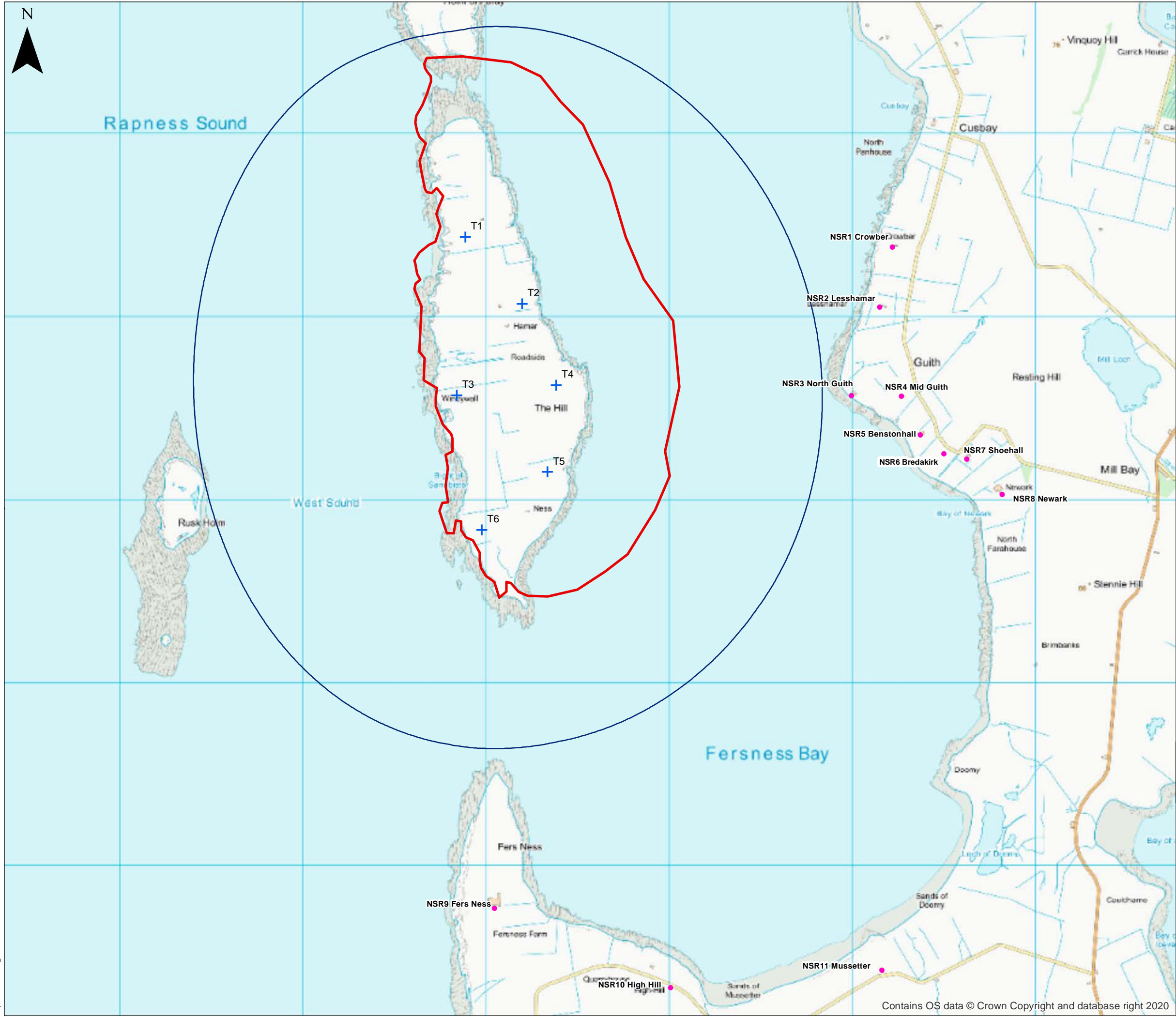


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 8.5

Cumulative Assessment

Date: 26/01/2021	Drawn by: AG	Checked by: MB	Version: V1
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KEY

- Site Boundary
- Turbine Layout N
- NSRs
- 35 dBLA90 contour

0 0.5 1 km

Scale 1:20,000 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 9.1
Proposed turbine layout, 35 dBLA90 screening contour, and NSRs

Date: 07/12/2020	Drawn by: GM	Checked by: SW	Version: V1
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- KEY**
- Site Boundary
 - NSRs
 - NMPs
 - Cumulative Turbines
 - Turbines Layout N
 - Lidar

0 0.5 1 km

Scale 1:20,000 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 9.2
Cumulative wind turbines considered
in assessment, location of Lidar device

Date: 18/11/2020 Drawn by: GM Checked by: SW Version: V1

Contains OS data © Crown Copyright and database right 2020



KEY

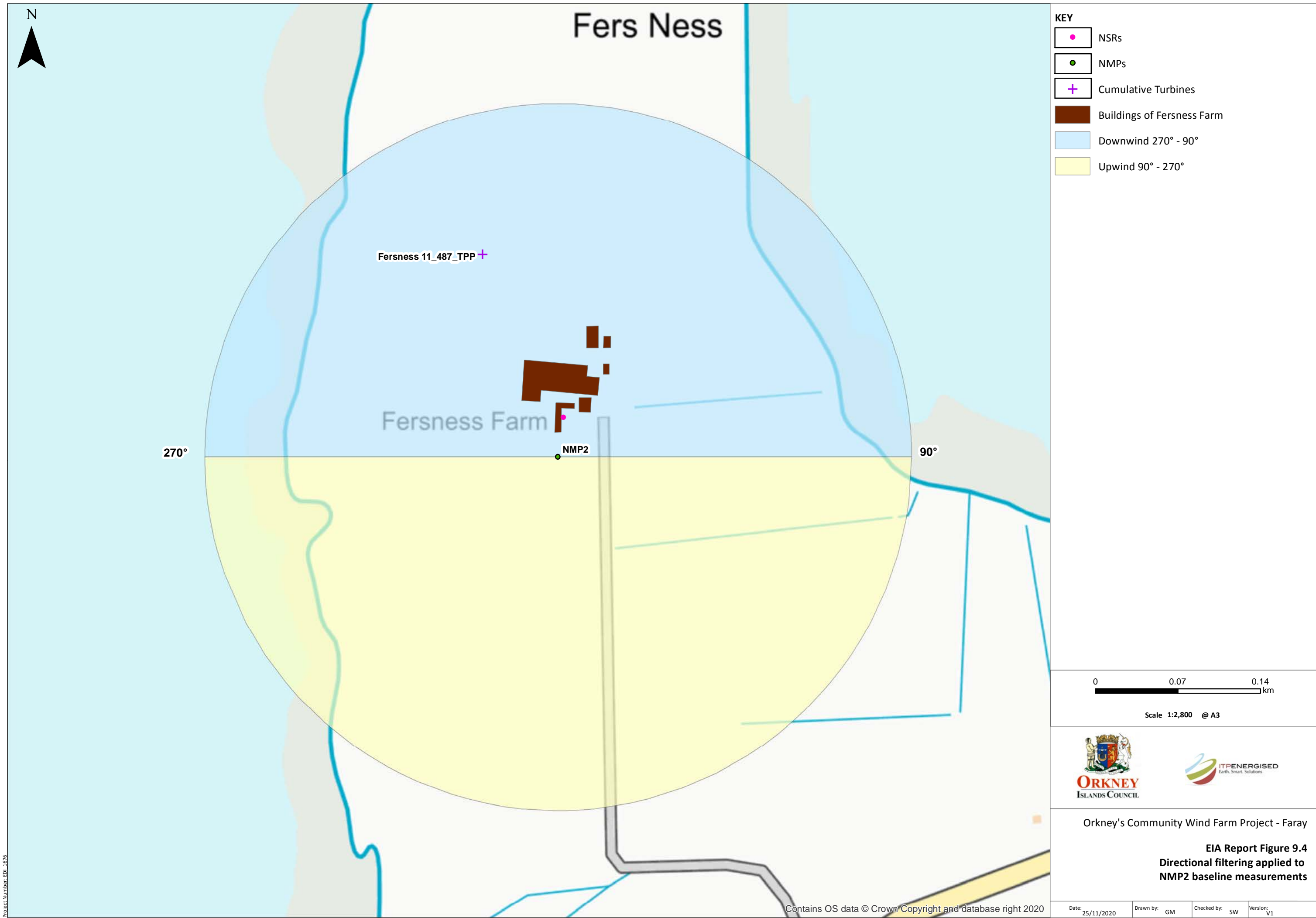
- NSRs
- NMPs
- 250° from NMP to Turbine, bearing in degrees
- 90° to bearing, showing down-wind sector
- 125° from NMP to Turbine, bearing in degrees
- 90° to bearing, showing down-wind sector
- NMP Upwind of Turbine 340° - 35°
- NMP Down-wind of Turbines 35° - 340°

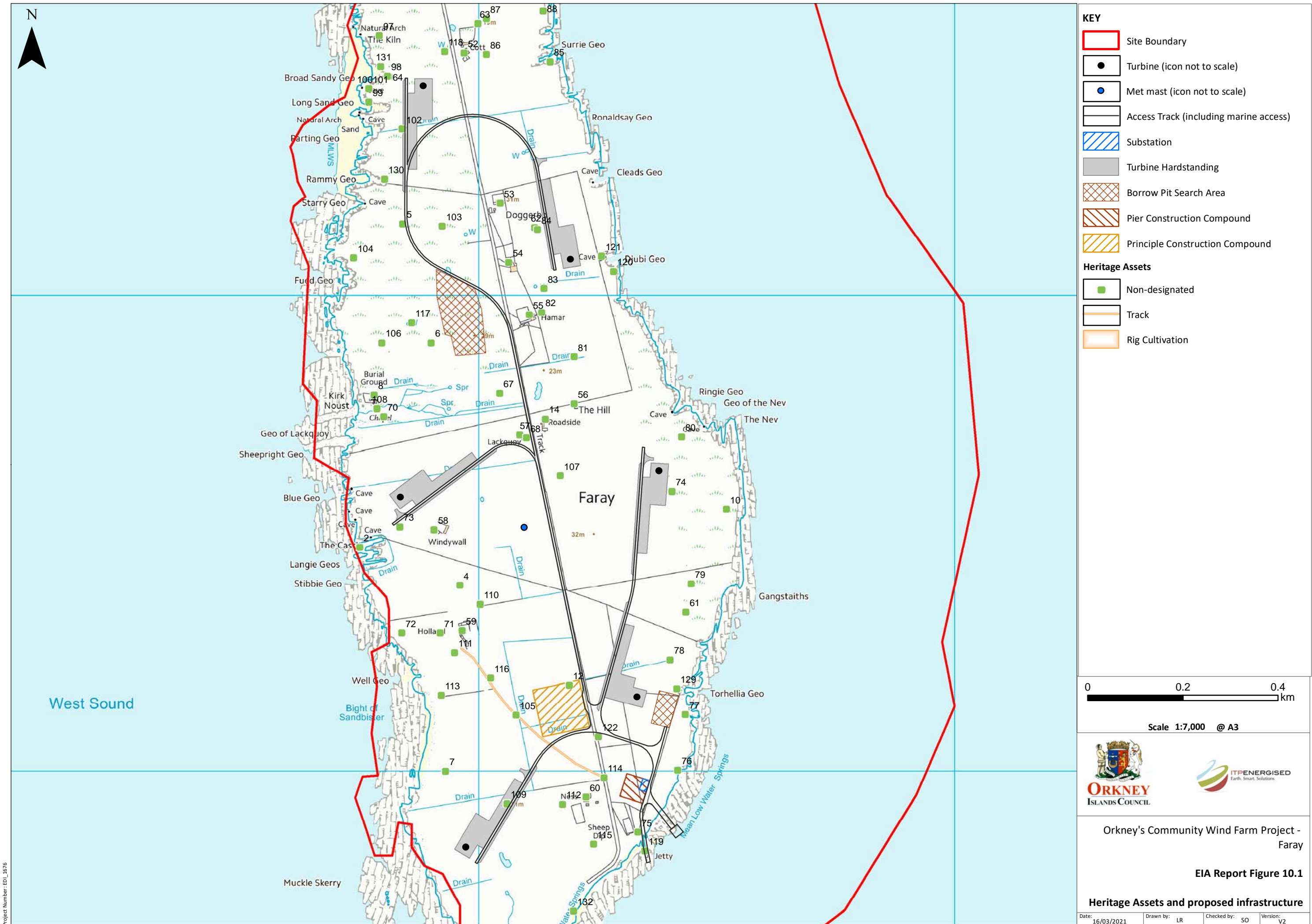
0 0.075 0.15 km
Scale 1:3,000 @ A3

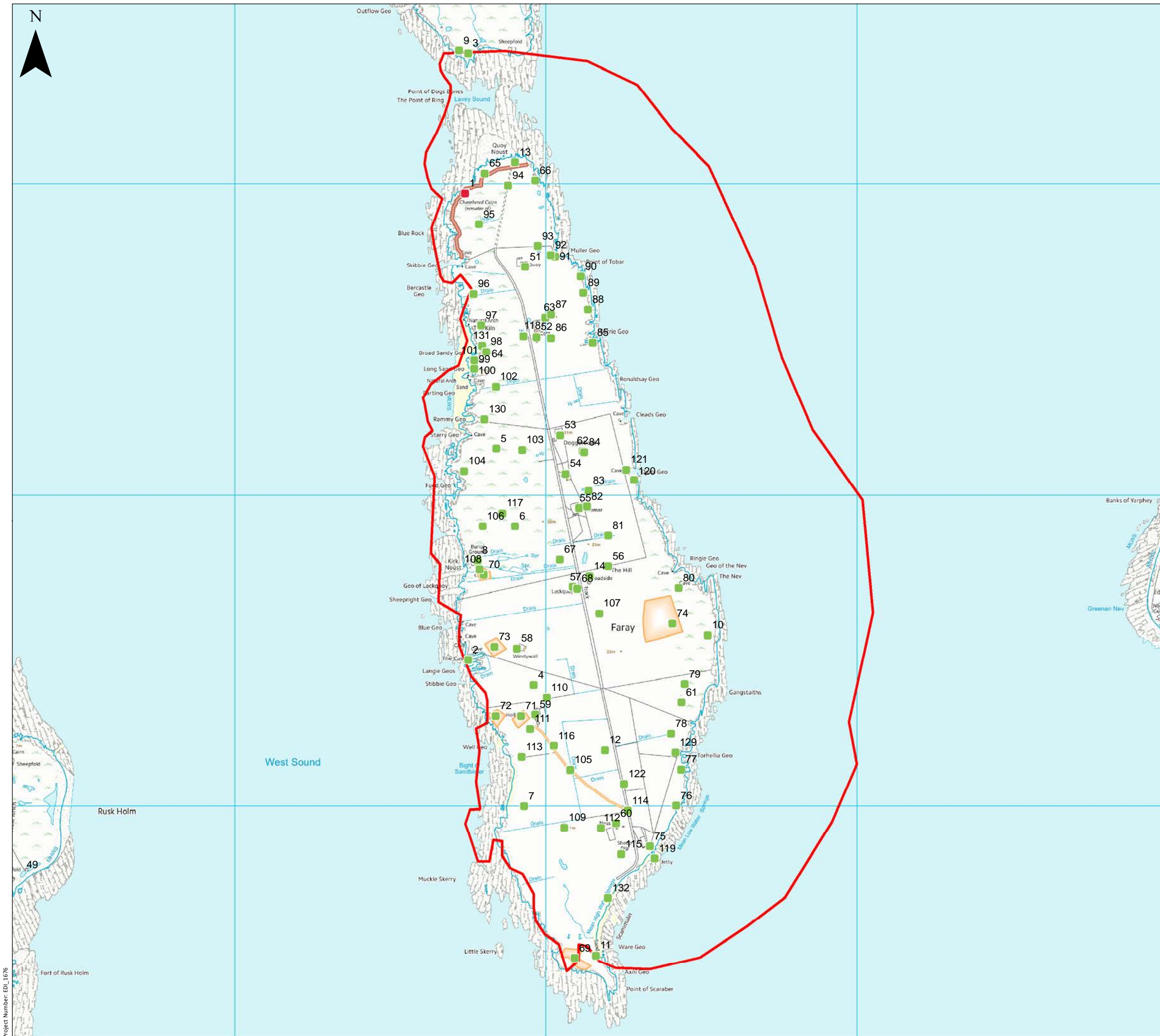


Orkney's Community Wind Farm Project - Faray
EIA Report Figure 9.3
Directional filtering applied to
NMP1 baseline measurements

Date: 05/01/2021	Drawn by: GM	Checked by: SW	Version: V1
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KEY

Site Boundary

Heritage Assets

Non-designated

Scheduled Monument

Rig Cultivation

Sheep Dyke

Track

0 0.35 0.7 km

Scale 1:12,000 @ A3

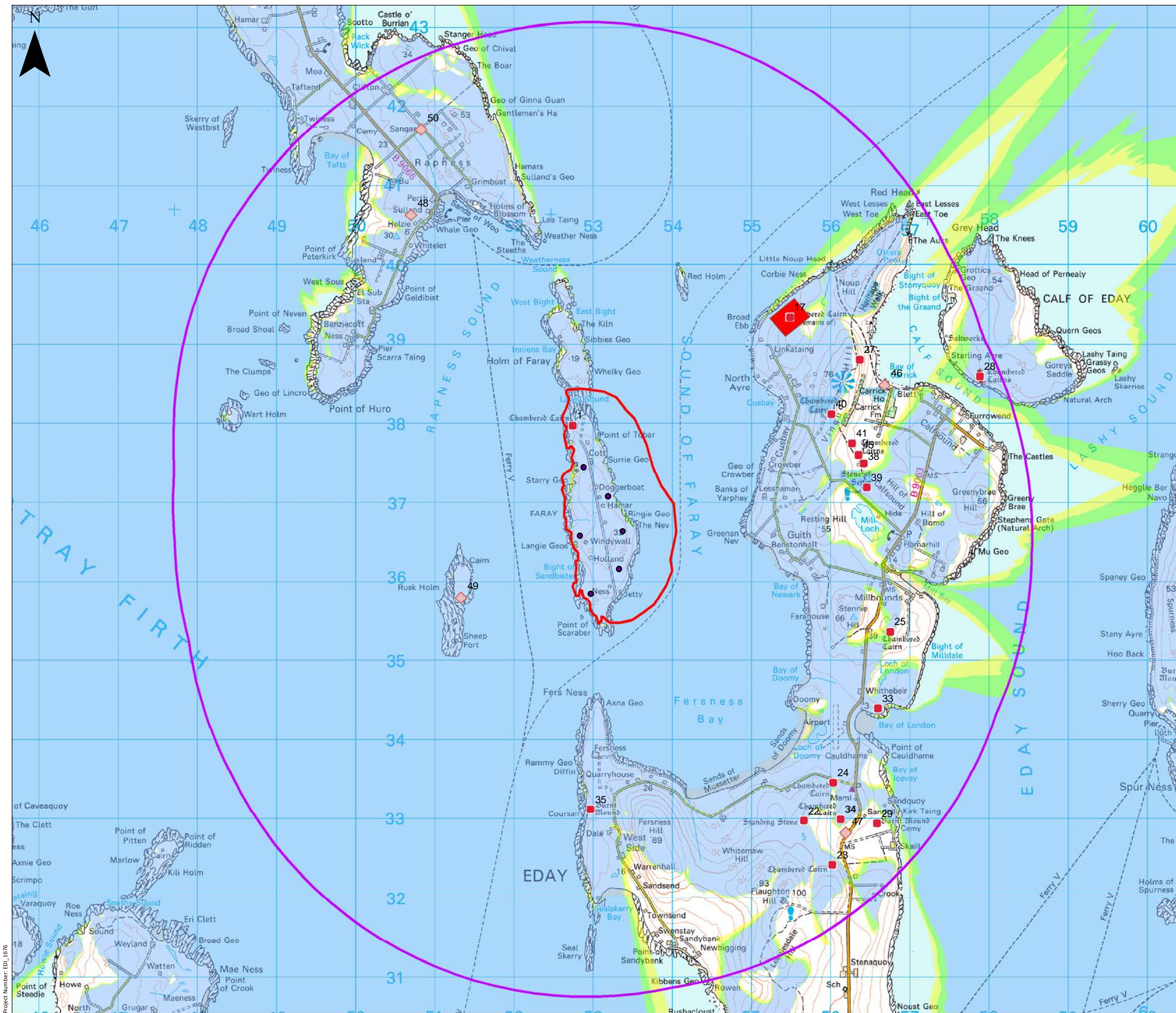


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.2

Heritage Assets within 1km Study Area

Date: 14/10/2020	Drawn by: LR	Checked by: SO	Version: V1
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KEY

- Site Boundary
- 5 km Study Area
- Turbine
- Scheduled Monument
- Listed Building
- Scheduled Monument Area

Value

- 1 - 2
- 3 - 4
- 5 - 6

0 1 2 km

Scale 1:46,000 @ A3

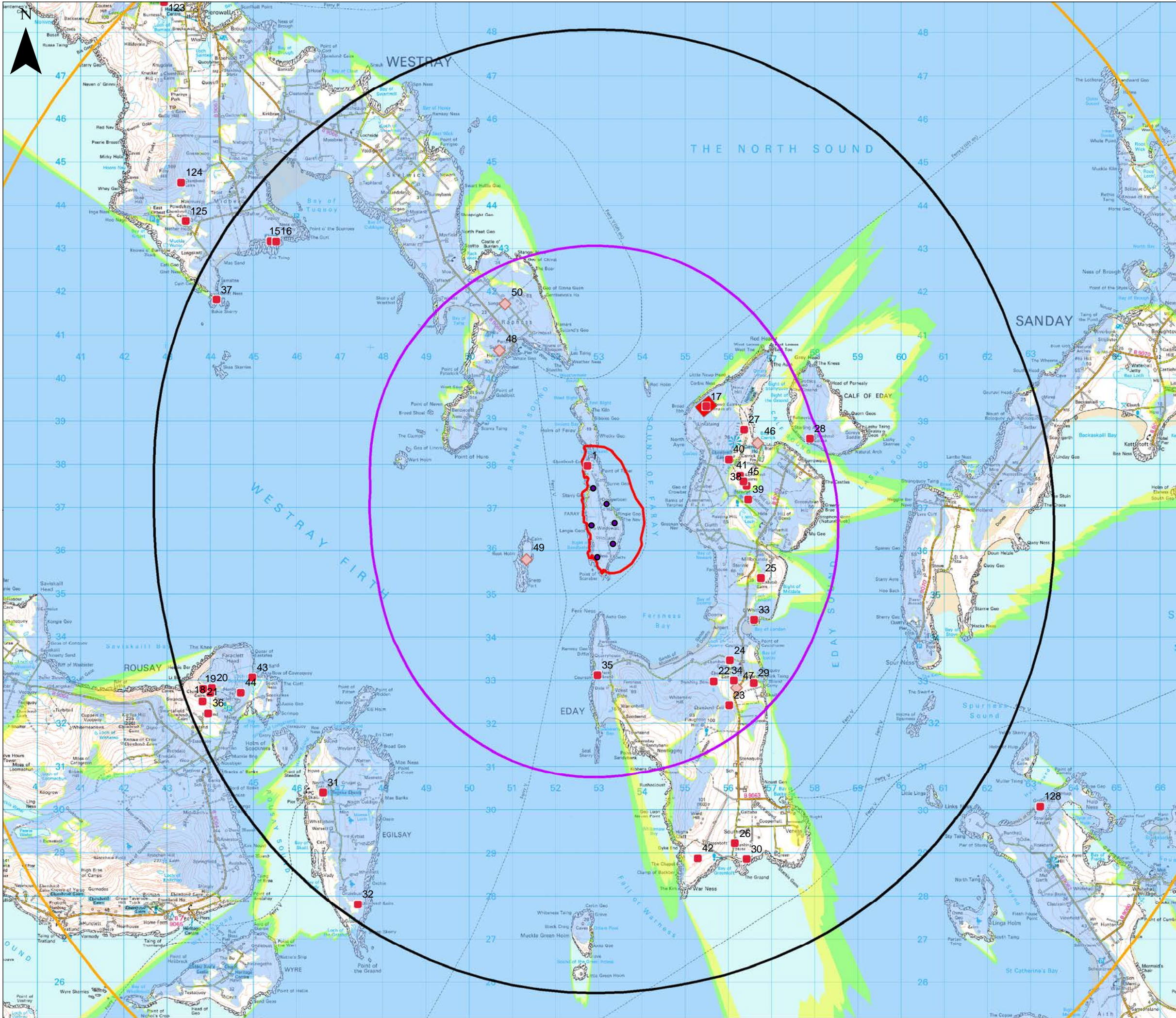


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.3

Heritage Assets and 5 km Study Area

Date: 02/12/2020 Drawn by: LR Checked by: SO Version: V2



- KEY**
- Site Boundary
 - 5 km Study Area
 - 10 km Study Area
 - 15 km Study Area
 - Turbine
 - Scheduled Monument
 - Listed Building
 - Scheduled Monument Area

- Value**
- 1 - 2
 - 3 - 4
 - 5 - 6

0 2.5 5 km

Scale 1:85,000 @ A3

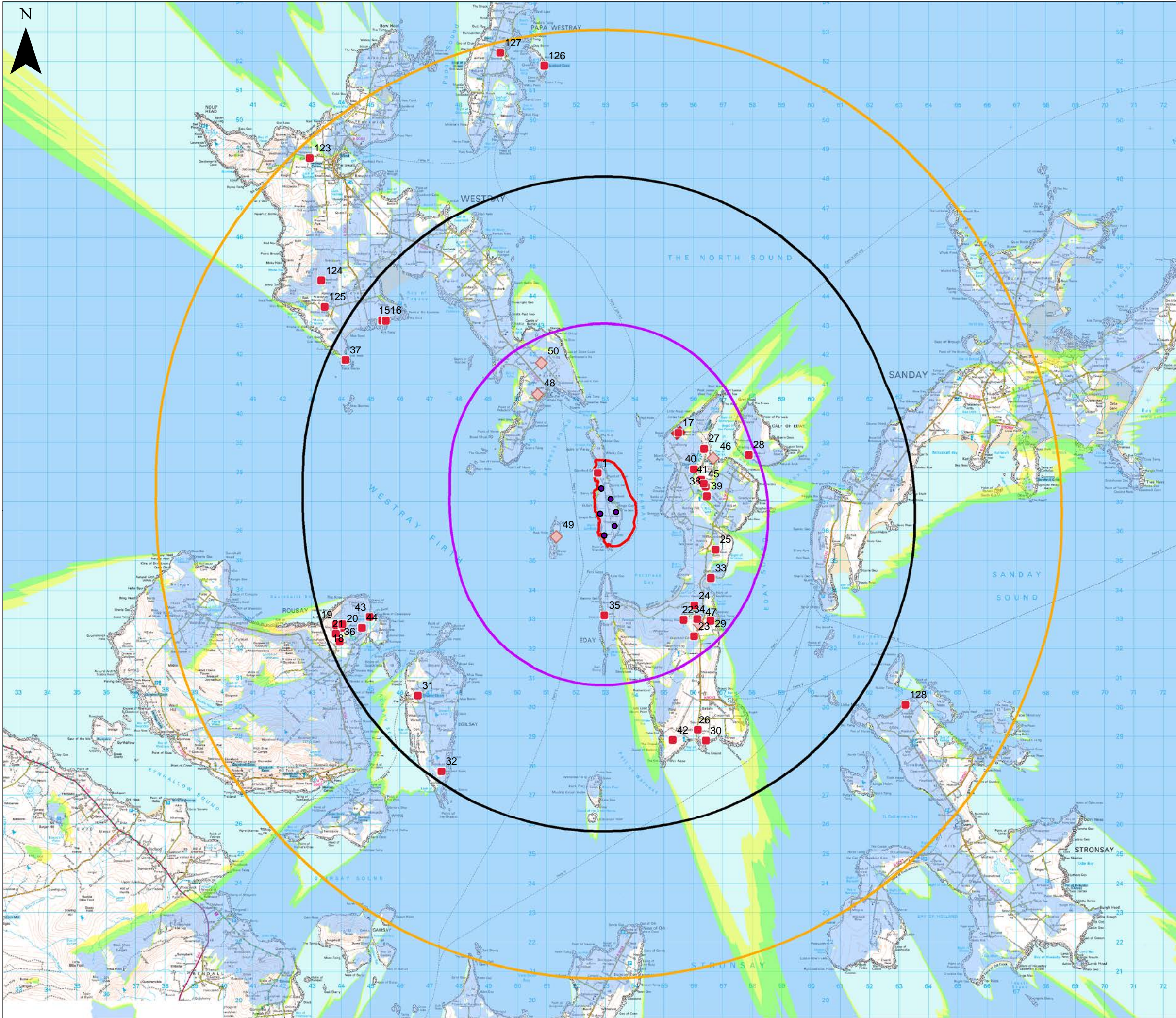


Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.4

Heritage Assets and 10 km Study Area

Date: 02/12/2020 Drawn by: LR Checked by: SO Version: V1



- KEY**
- Site Boundary
 - 5 km Study Area
 - 10 km Study Area
 - 15 km Study Area
 - Turbine
 - Scheduled Monument
 - Listed Building
 - Scheduled Monument Area

- Value**
- 1 - 2
 - 3 - 4
 - 5 - 6

0 3.5 7 km

Scale 1:125,000 @ A3

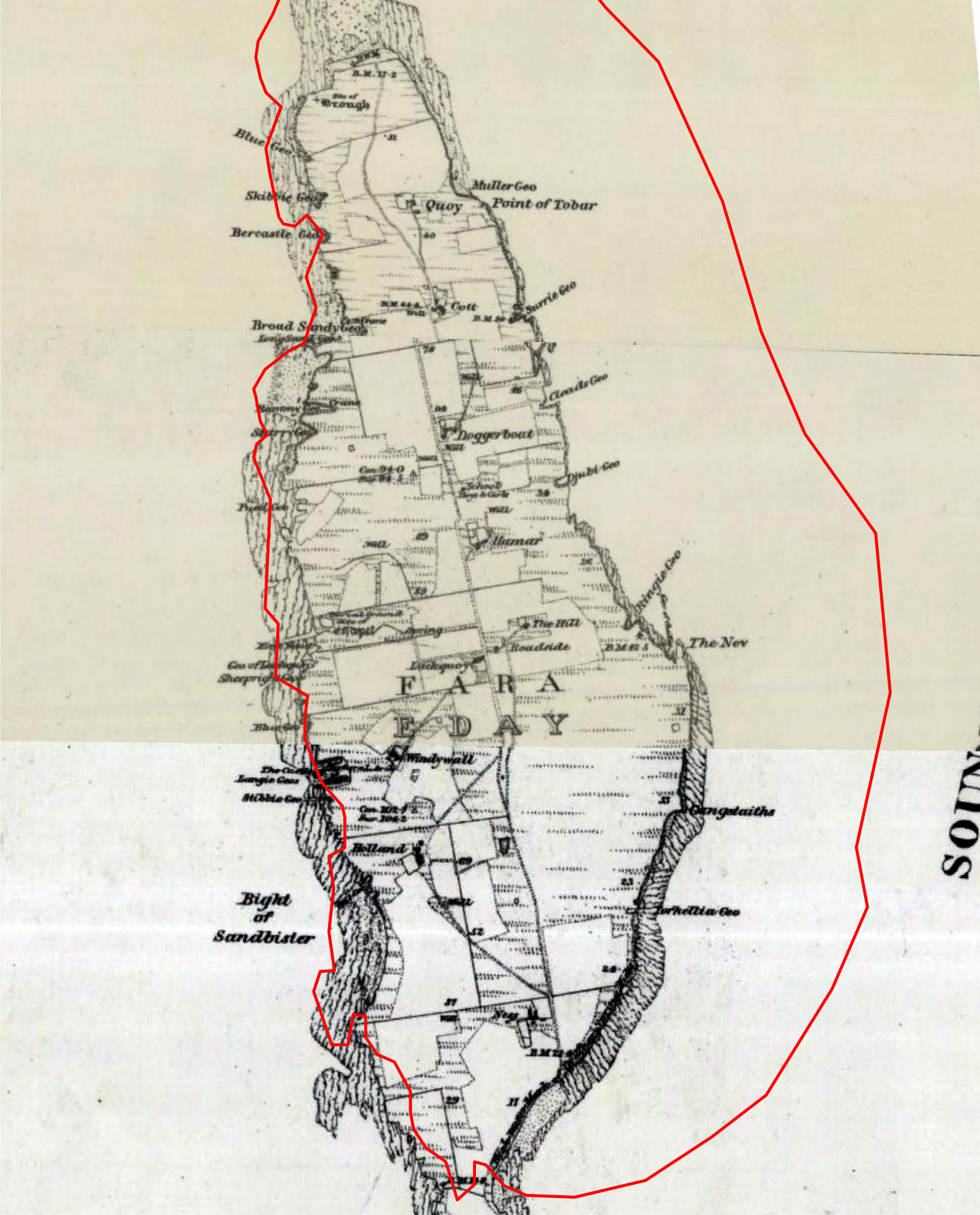


Orkney's Community Wind Farm Project - Faray

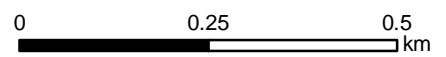
EIA Report Figure 10.5

Heritage Assets and 15km Study Area

Date: 21/01/2021 Drawn by: LR Checked by: SO Version: V1



KEY
 Site Boundary



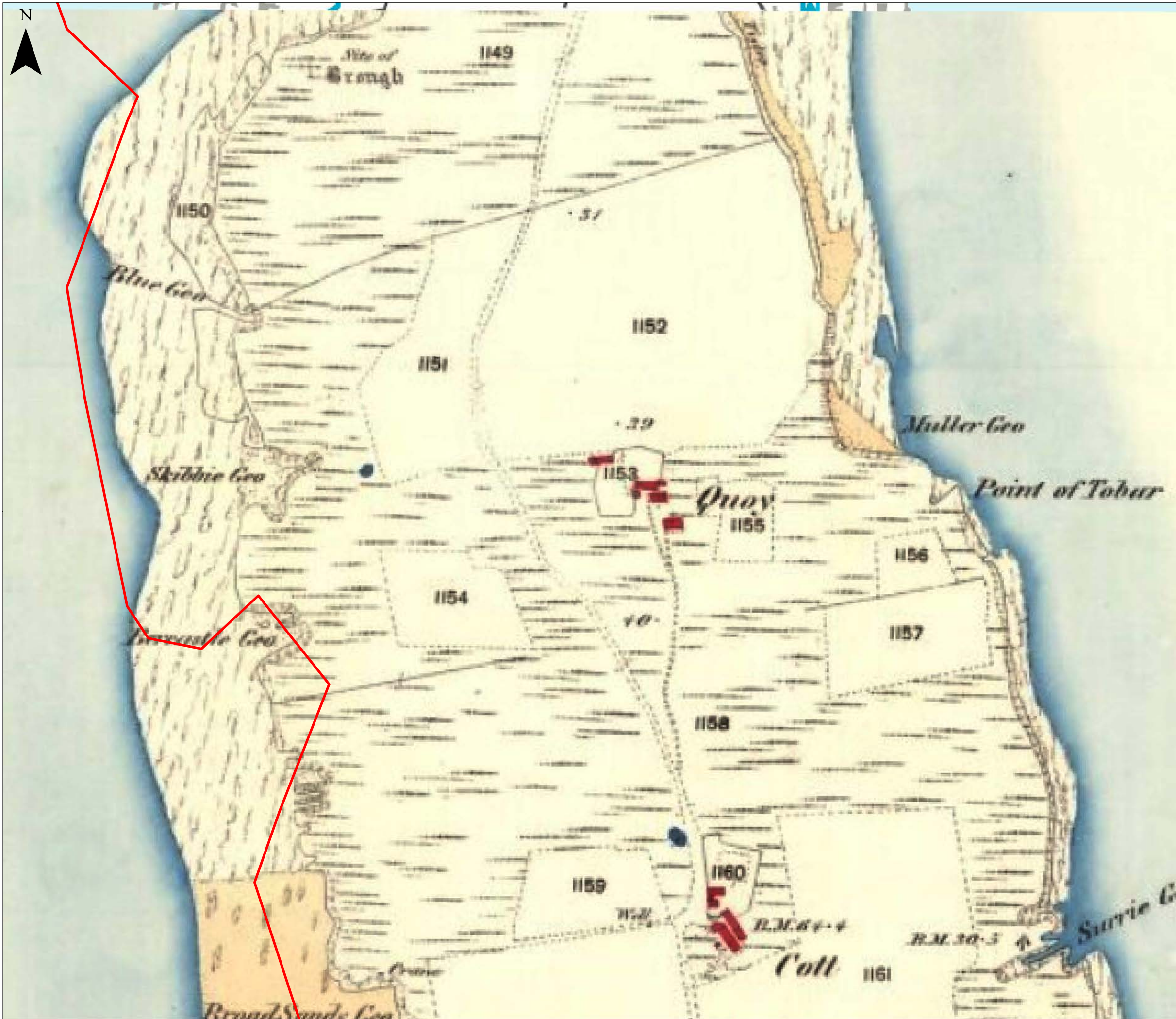
Scale 1:10,000 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.6
Extract from 1882 Ordnance Survey map

Date: 08/10/2020	Drawn by: LR	Checked by: SO	Version: V1
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KEY

 Site Boundary

0 0.05 0.1
km

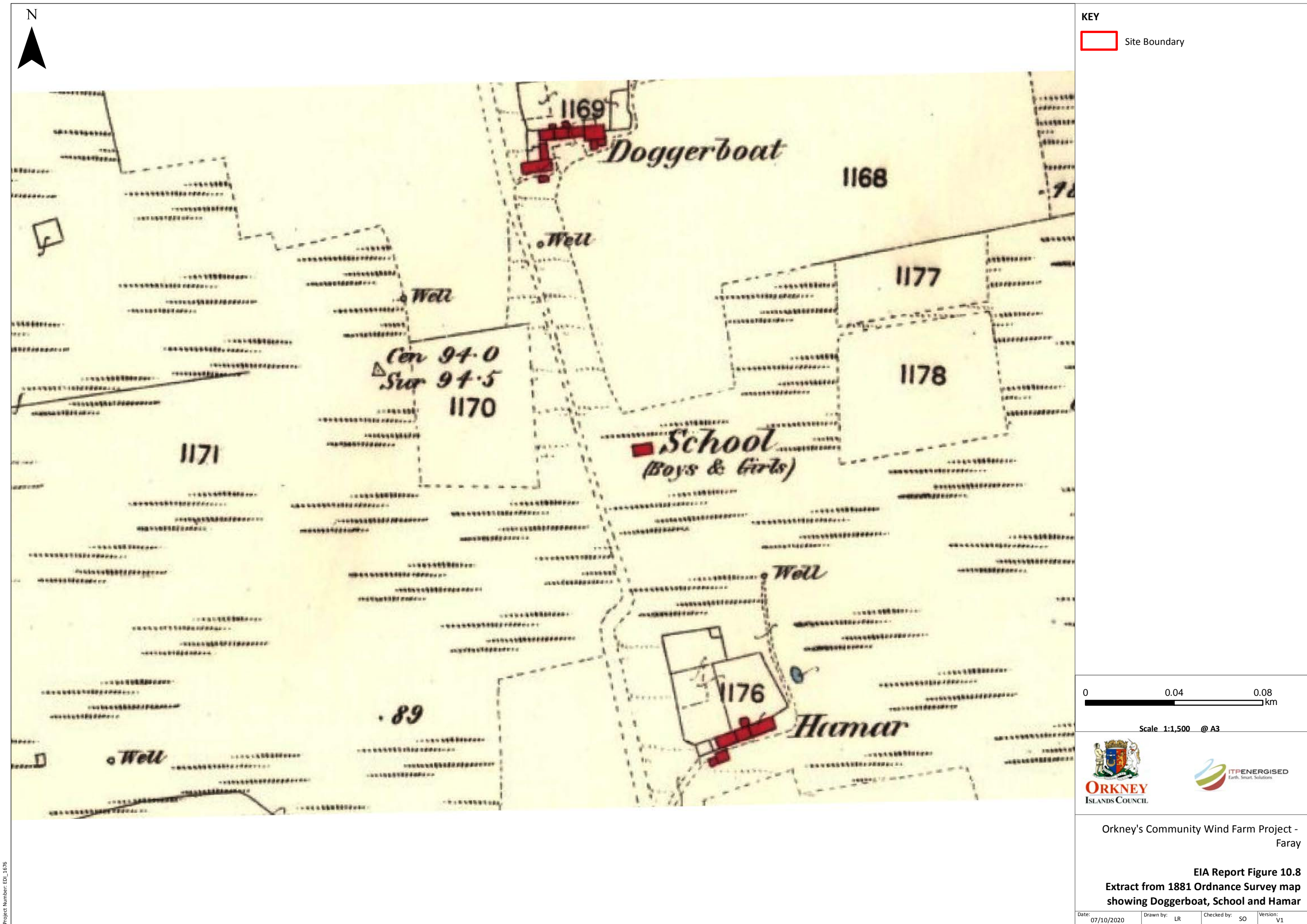
Scale 1:1,800 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.7
Extract from 1881 Ordnance Survey map
showing Quoy and Cott

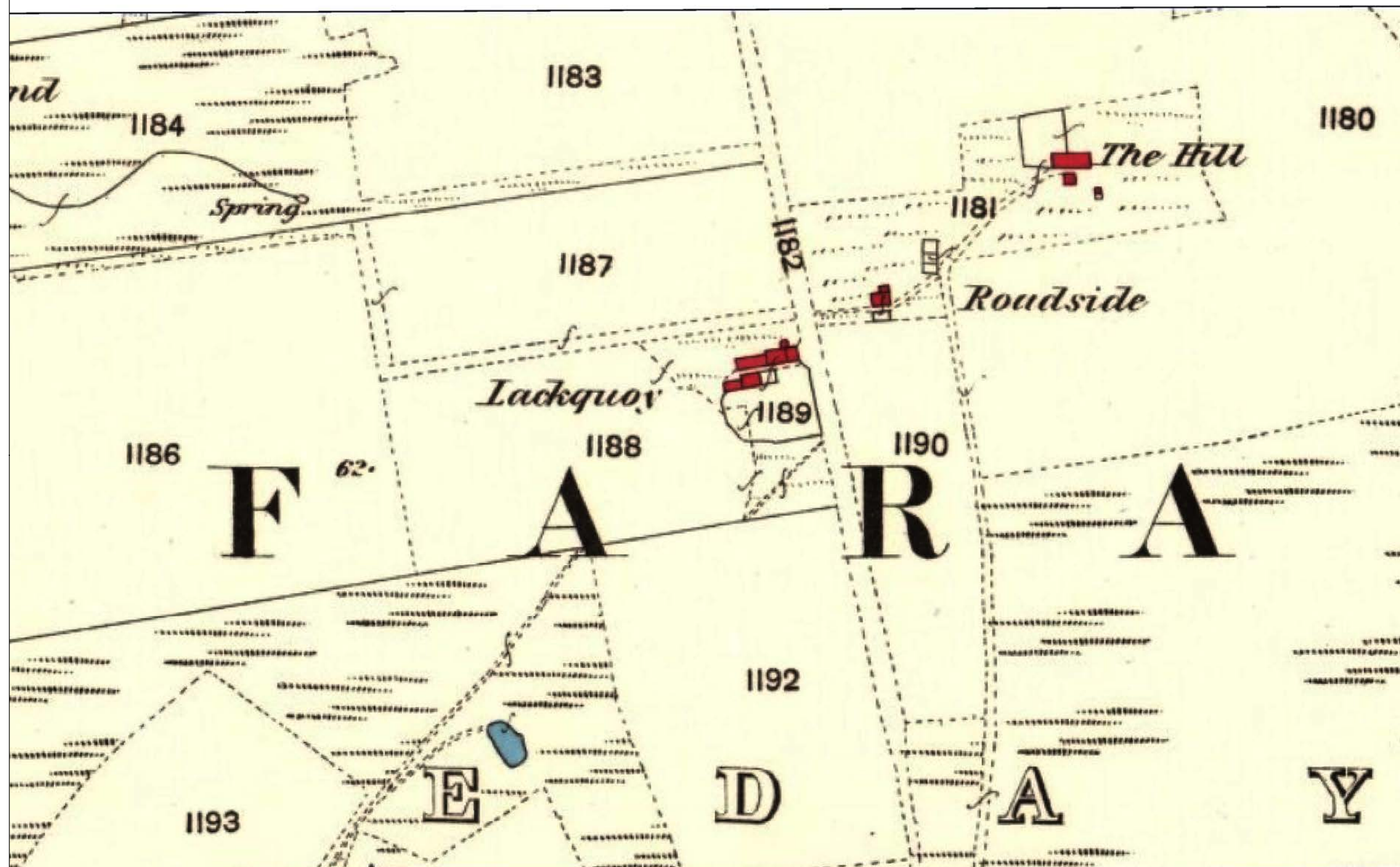
Date: 07/10/2020 Drawn by: LR Checked by: SO Version: V1





KEY

 Site Boundary



0 0.04 0.08
km

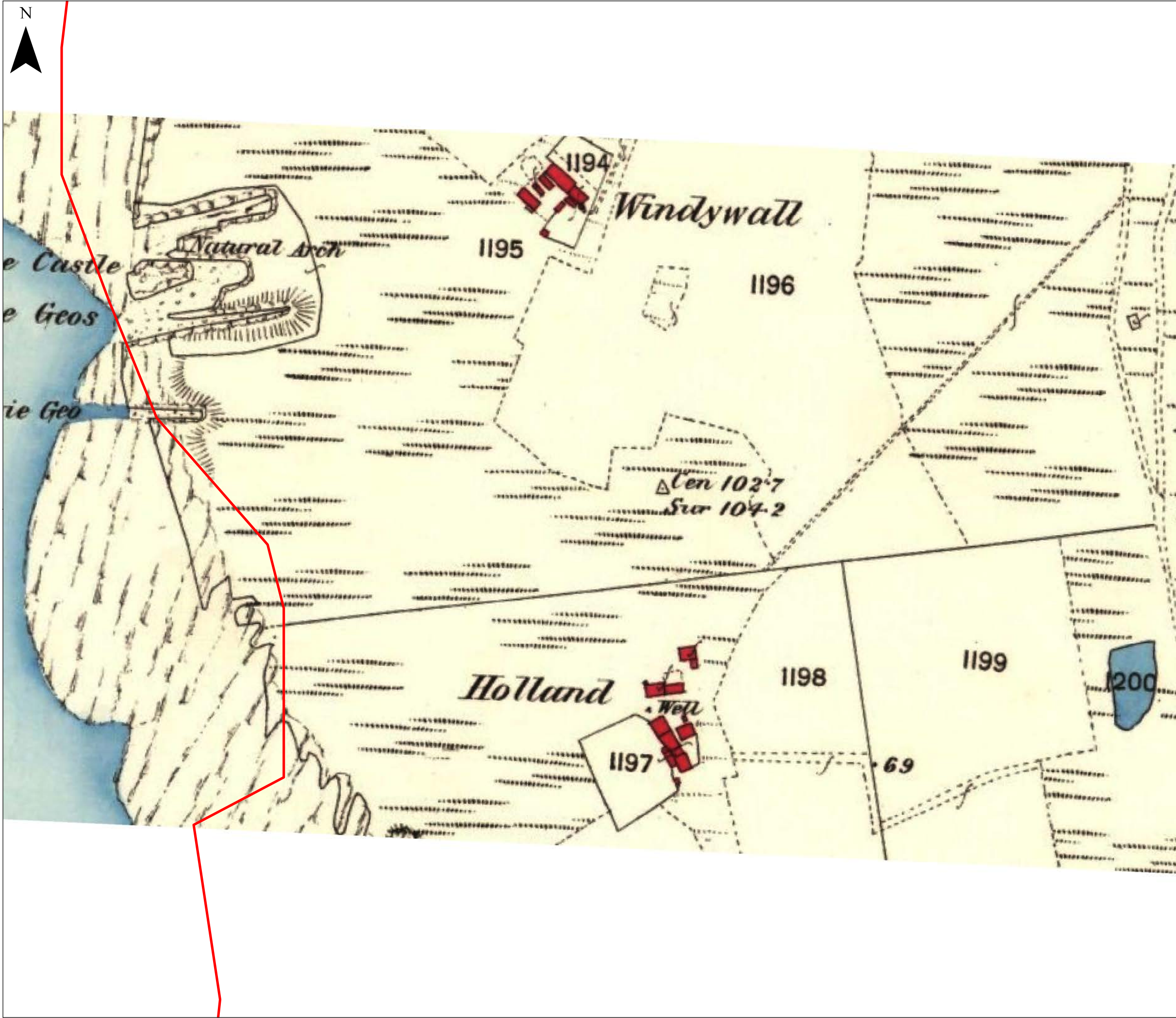
Scale 1:1,500 @ A3



Orkney's Community Wind Farm Project -
Faray

EIA Report Figure 10.9
Extract from 1881 Ordnance Survey map
showing Roadside and Lackquoy

Date: 07/10/2020	Drawn by: LR	Checked by: SO	Version: V1
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KEY

Site Boundary

0 0.04 0.08
km

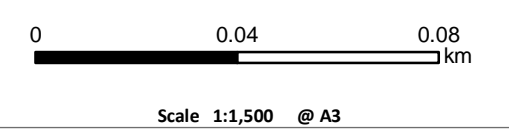
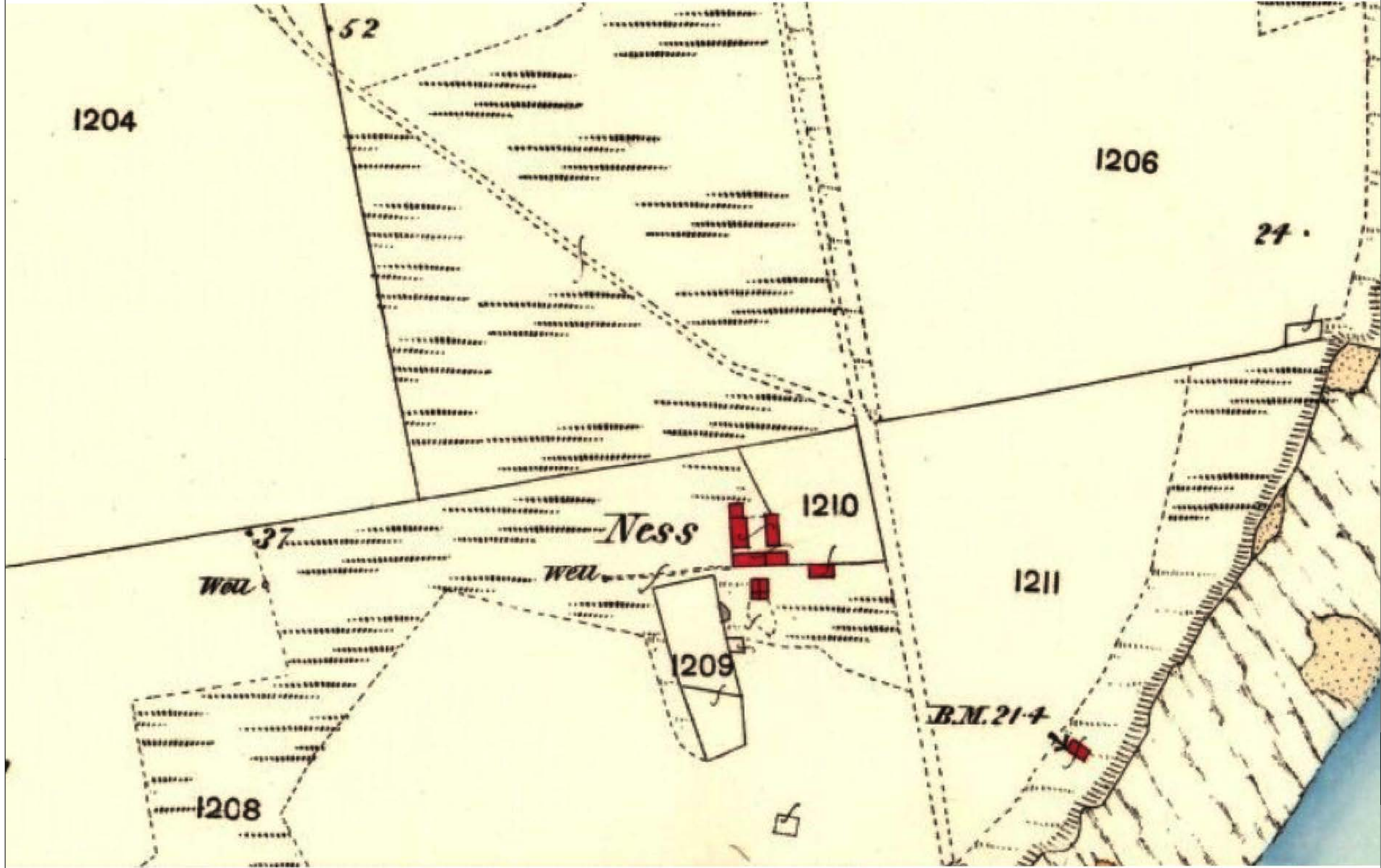
Scale 1:1,500 @ A3



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.10
Extract from 1881 Ordnance Survey map
showing Windywall and Holland

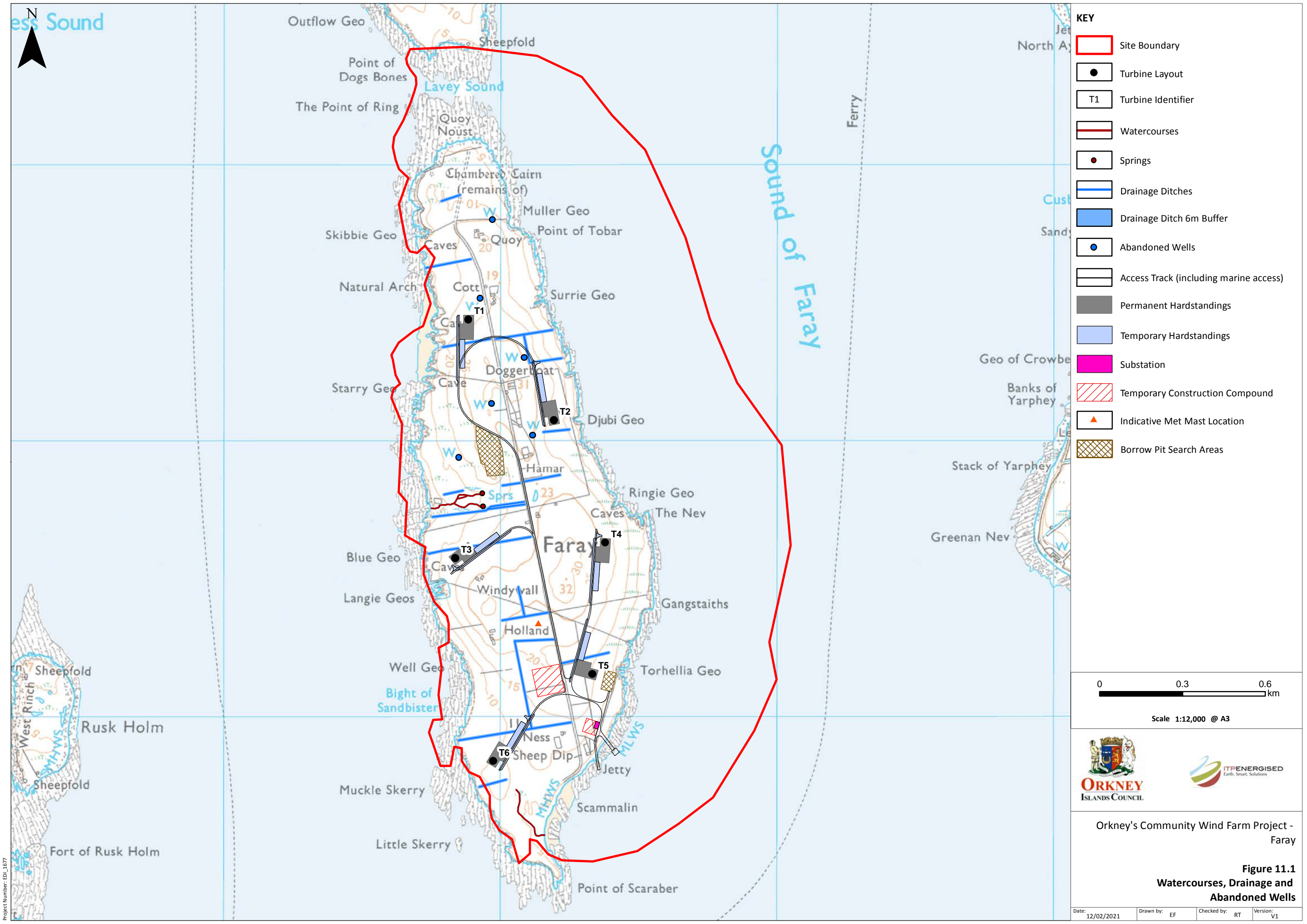
Date: 07/10/2020	Drawn by: LR	Checked by: SO	Version: V1
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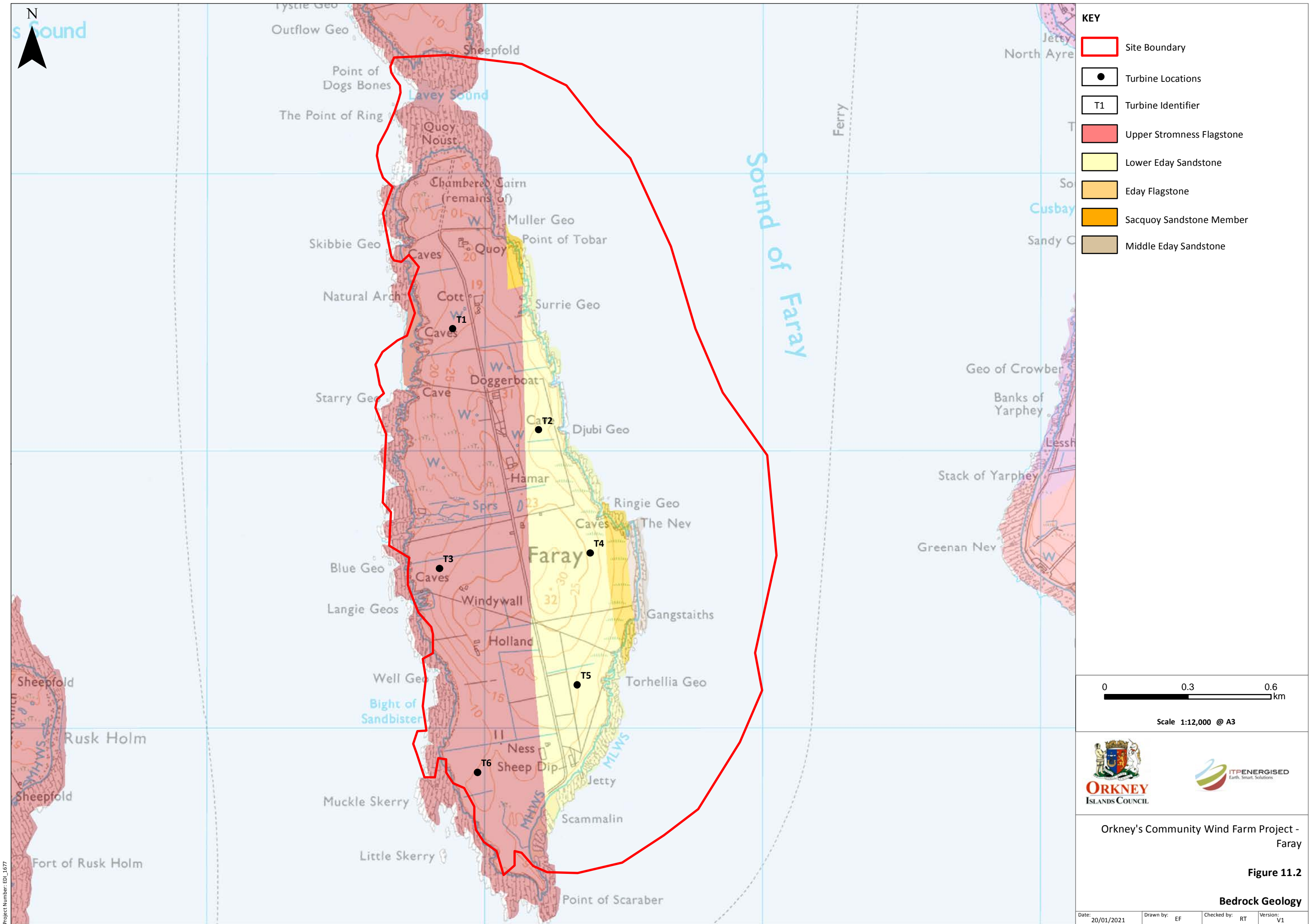


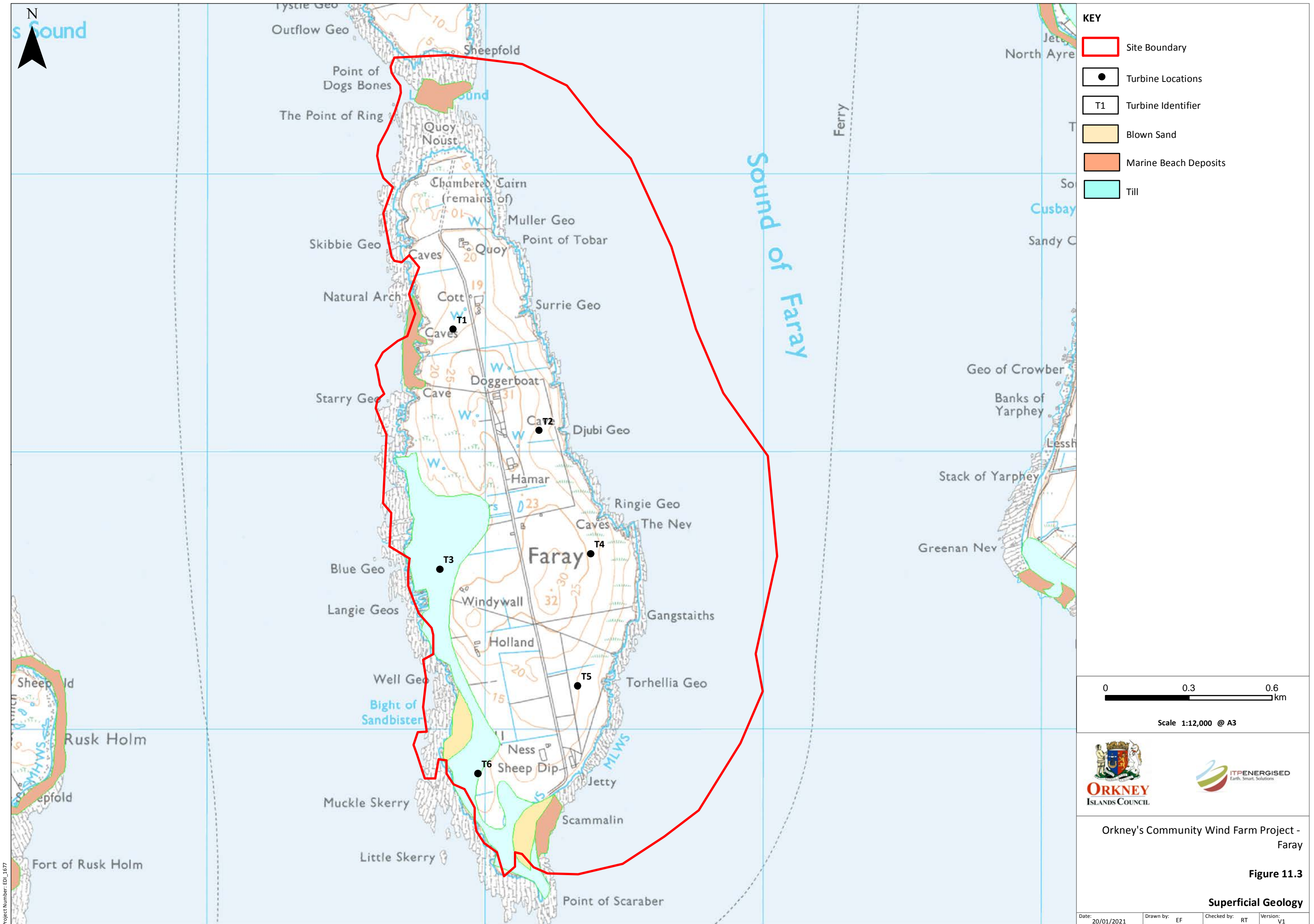
Orkney's Community Wind Farm Project - Faray

EIA Report Figure 10.11
Extract from 1881 Ordnance Survey
map showing Ness

Date: 02/12/2020	Drawn by: LR	Checked by: SO	Version: V2
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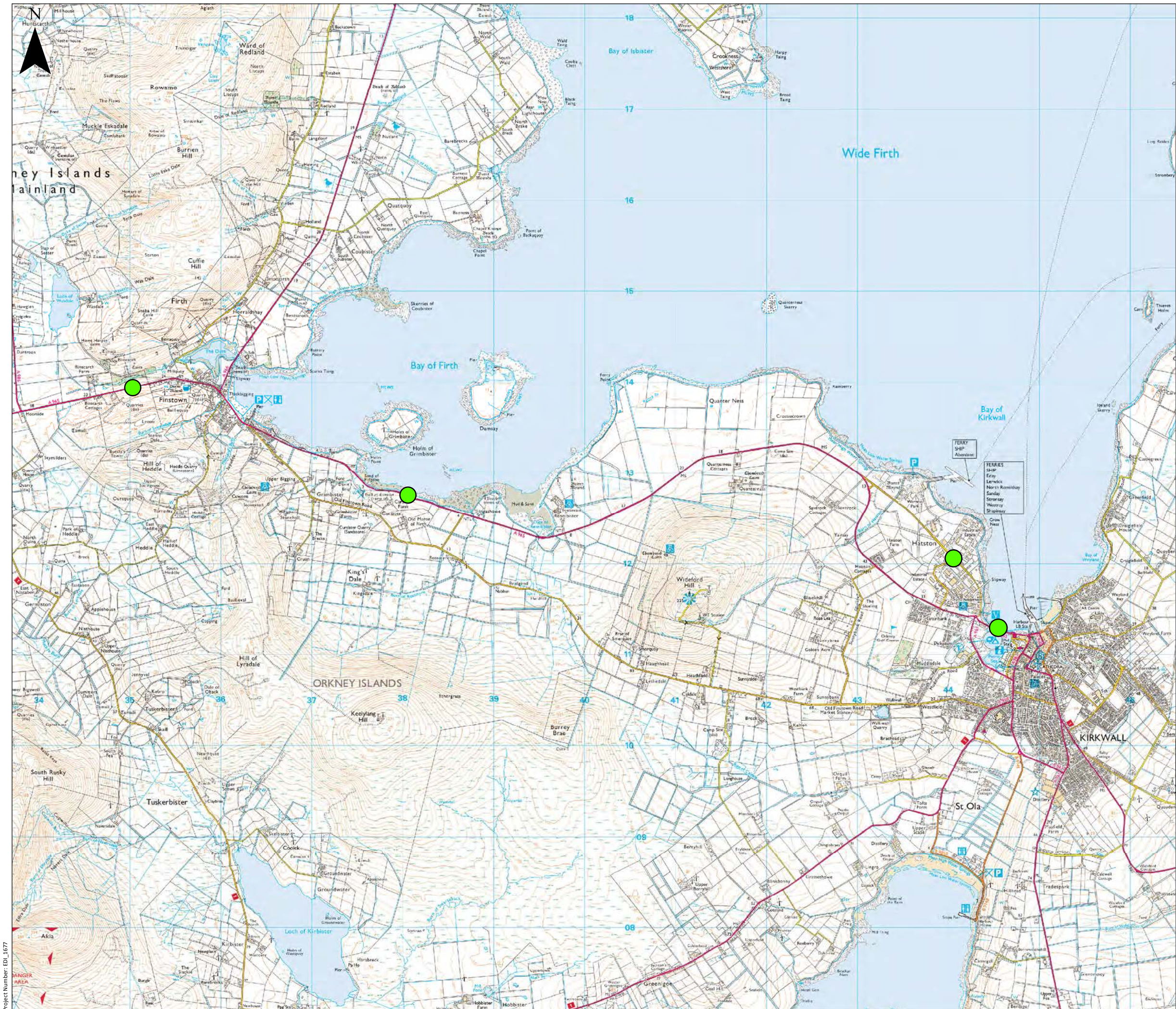







Project Number: EDI_1677





KEY

 Automatic Traffic Count (ATC) Locations



Scale 1:40,000 @ A3



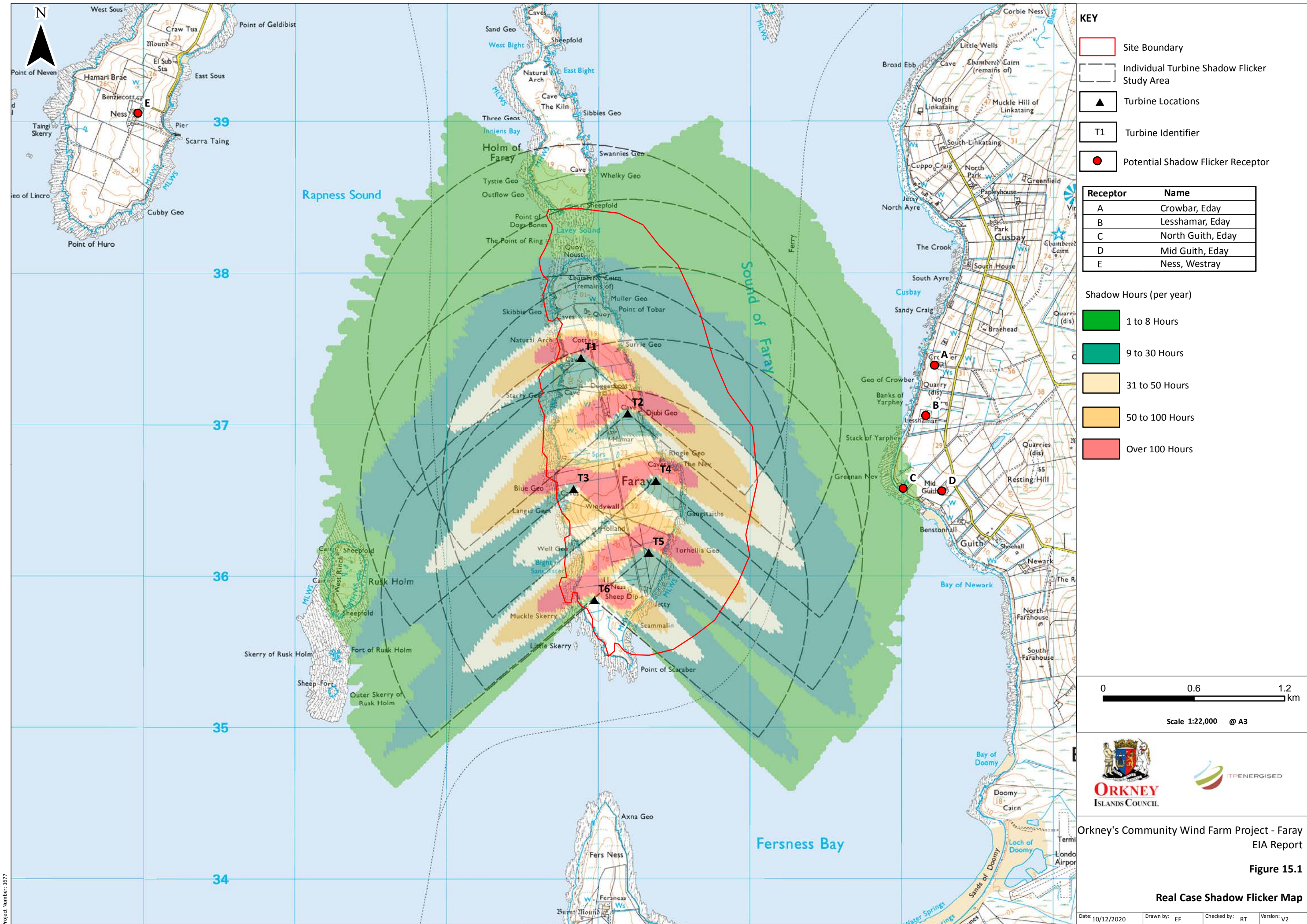
Orkney's Community Wind Farm Project - Faray

EIA Report Figure 12.1

Automatic Traffic Count (ATC) Locations

Date: 11/05/2021	Drawn by: MR	Checked by: RF	Version: V1
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Project Number: ED_1677



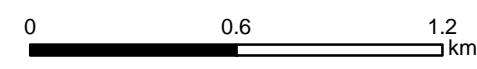
KEY

- Site Boundary
- Individual Turbine Shadow Flicker Study Area
- Turbine Locations
- T1 Turbine Identifier
- Potential Shadow Flicker Receptor

Receptor	Name
A	Crowbar, Eday
B	Lesshamar, Eday
C	North Guith, Eday
D	Mid Guith, Eday
E	Ness, Westray

Shadow Hours (per year)

- 1 to 8 Hours
- 9 to 30 Hours
- 31 to 50 Hours
- 50 to 100 Hours
- Over 100 Hours



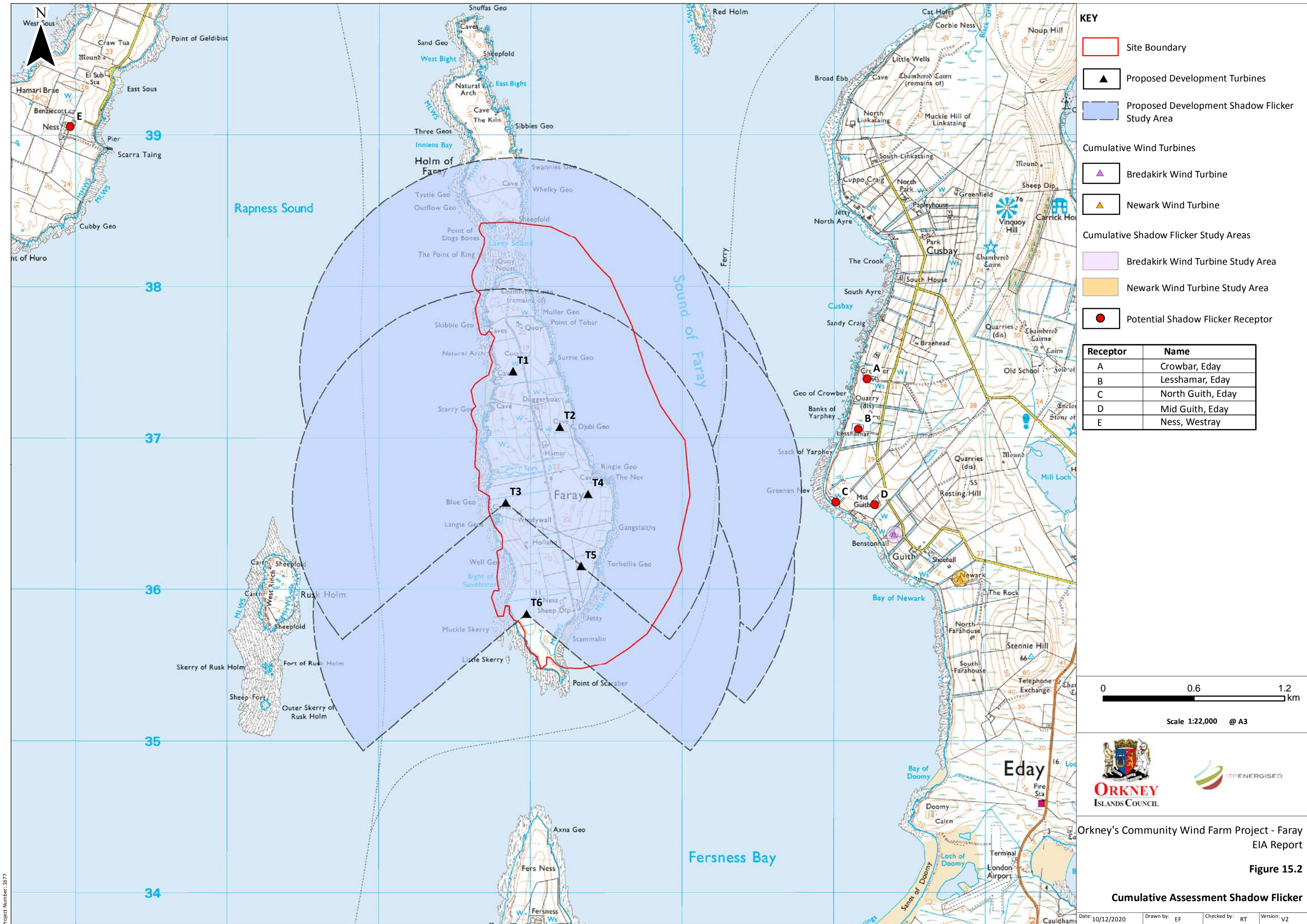
Scale 1:22,000 @ A3



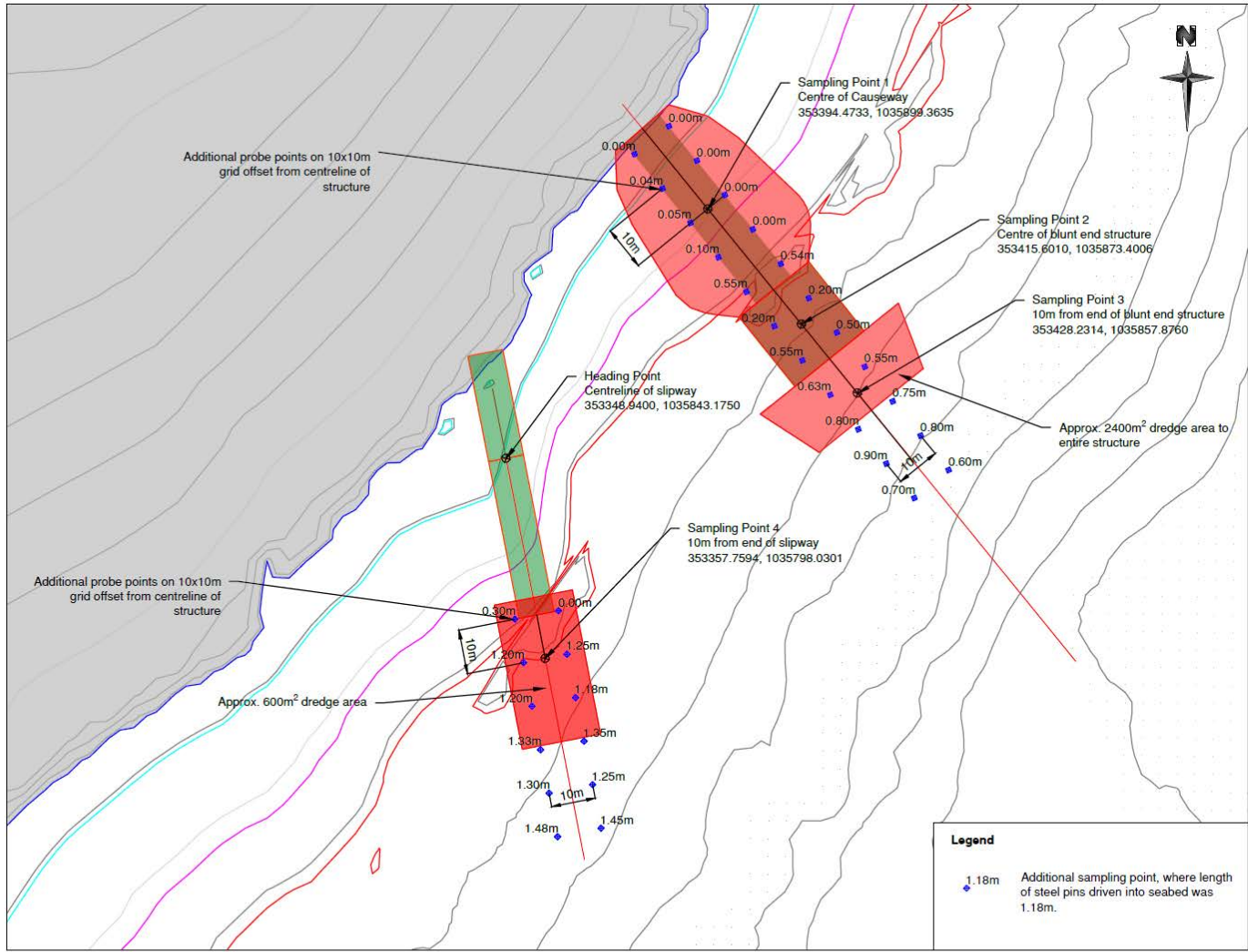
Orkney's Community Wind Farm Project - Faray
EIA Report
Figure 15.1

Real Case Shadow Flicker Map

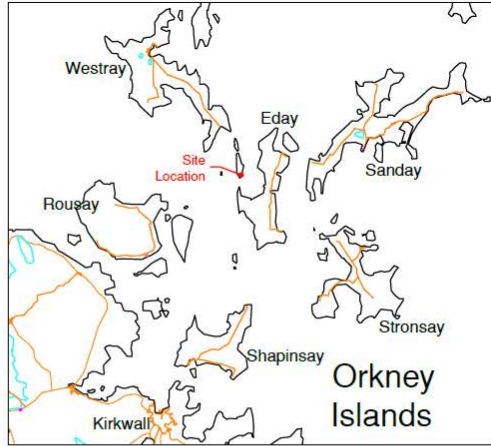
Date: 10/12/2020	Drawn by: EF	Checked by: RT	Version: V2
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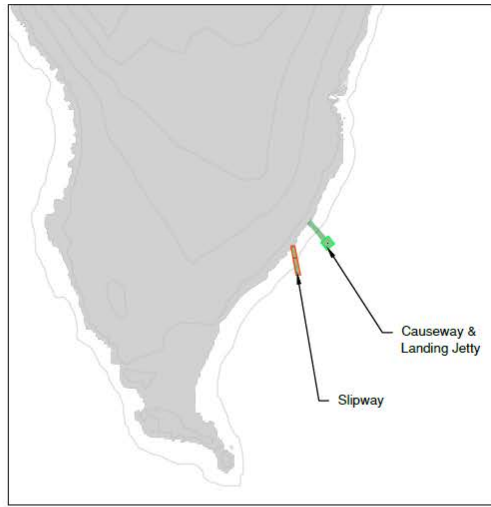
Project Number: 1677



PLAN
SCALE 1:1,000



LOCATION PLAN
SCALE 1:500,000



LOCATION PLAN
SCALE 1:10,000

KEY

- Mean High Water Springs (MHWS)
- Mean Low Water Springs (MLWS)
- New infrastructure
- Dredging area
- Land



Orkney's Community Wind Farm Project - Faray

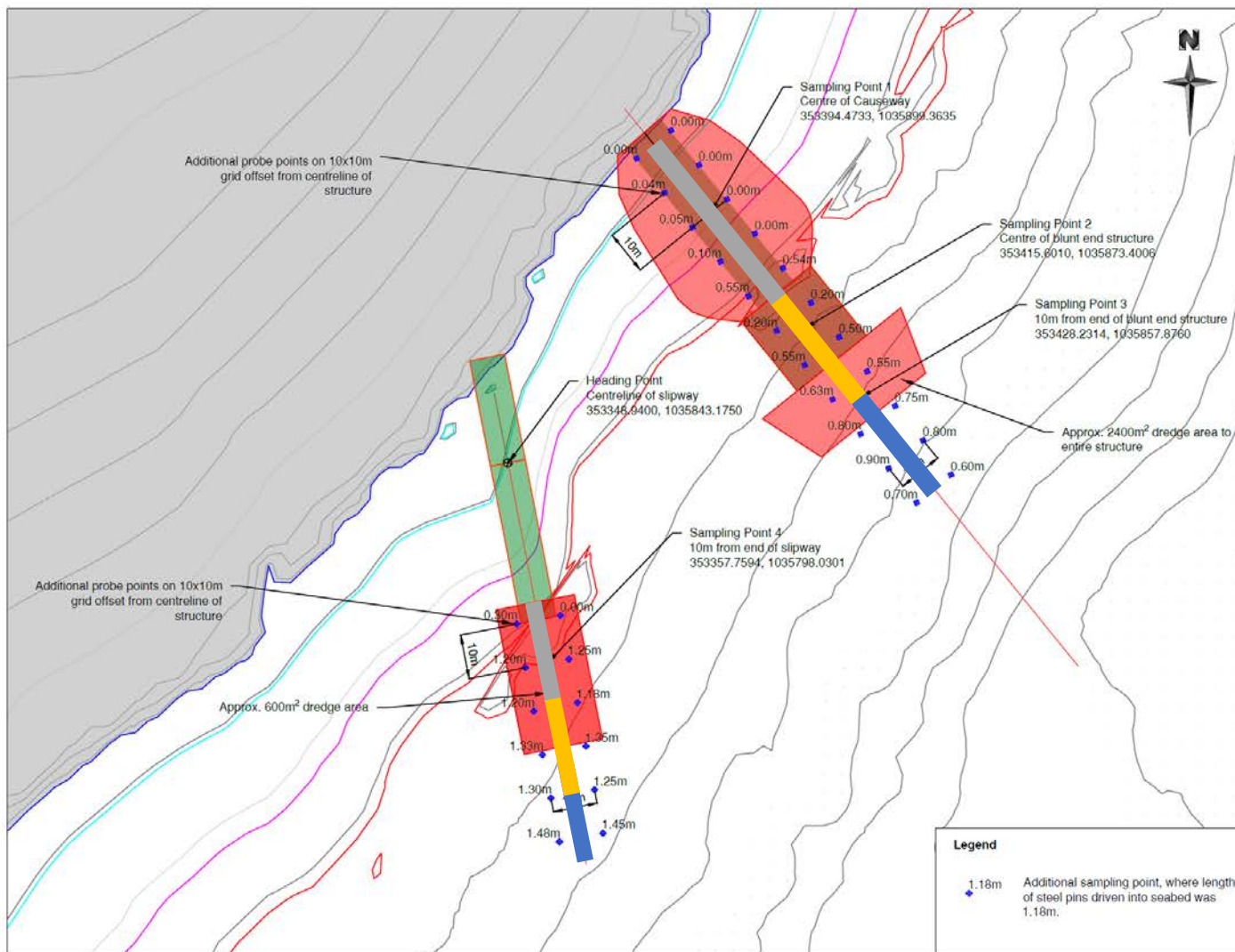
EIA Report Figure 17.1
Marine Structures Sampling Plan

1	First issue	06/04/21	CM	MD	DC
Rev	Desc	Date	By	Chk	App
File Ref.	1006002	Drawing No.	104		
Revision	1				
Drawn	CM	Checked	MD	Approved	DC
Date	06/04/21	Scale	As shown	Original drawing size	420mm x 297mm (A3)

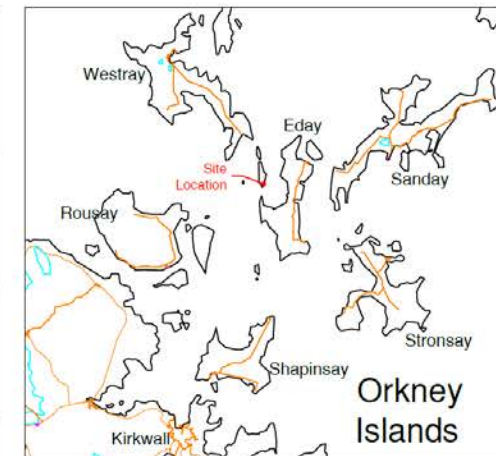
G:\Tec\TRANS\PROJECTS\1006002 Orkney Community Wind\04 - Faray Windfarm\04 - Drawings\Models\Marine License GA Reduced Dredge.dwg

Orkney Community Wind Farm	Faray Wind Farm Marine Structures Sampling Plan	ENGINEERING	DEVELOPMENT AND INFRASTRUCTURE Council Offices, Kirkwall Orkney, KW15 1NY tel (01856) 873535 Executive Director:- Gavin Barr, BSc Hons, MSc URP, MRTPI
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PLAN
SCALE 1:1,000



LOCATION PLAN
SCALE 1:500,000



LOCATION PLAN
SCALE 1:10,000

KEY

- Mean High Water Springs (MHWS)
- Mean Low Water Springs (MLWS)
- New infrastructure
- Dredging area
- Land

ITPE Transect Annotation:

- Seagrass
- Sand
- Kelps, rock, boulders, fucoids, and greens and filamentous reds

Note: all transect classifications are illustrative and approximate based on analysis of video footage



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 18.1
Seabed Survey Sample Plan (annotated)

1	First issue	06/04/21	CM	MD	DC
Rev	Desc	Date	By	Chk	App
File Ref.	1006002	Drawing No.	104	G:\Tec\TRANS\PROJECTS\1006002 Orkney Community Wind\04 - Faray Windfarm\1D - Drawings\Models\Marine License GA Reduced Dredge.dwg	
Revision	1				
Drawn	CM	Checked	MD	Approved	DC
Date	06/04/21	Scale	As shown	Original drawing size	420mm x 297mm (A3)

Orkney Community Wind Farm

Faray Wind Farm
Marine Structures Sampling Plan

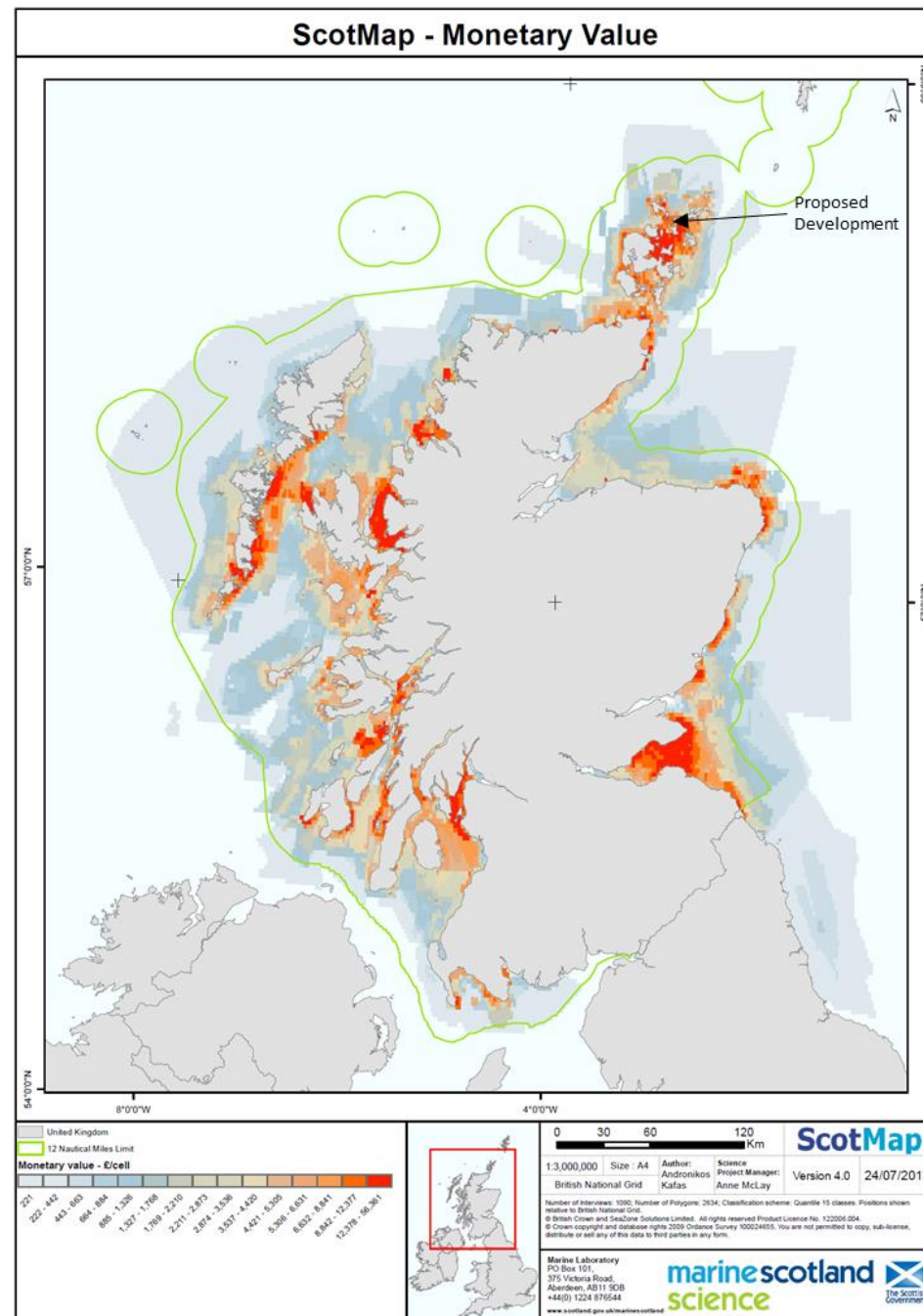
ENGINEERING

DEVELOPMENT AND
INFRASTRUCTURE

Council Offices, Kirkwall
Orkney, KW15 1NY
tel (01856) 873535

Executive Director:-
Gavin Barr, BSc Hons, MSc URP, MRTPI





Source: Marine Scotland (2020). 2019 Scottish Sea Fisheries Statistics – Fishing Effort and Quantity and Value of Landings by ICES Rectangles. DOI: 10.7489/12338-1.

Available at
<https://data.marine.gov.scot/dataset/2019-scottish-sea-fisheries-statistics-fishing-effort-and-quantity-and-value-landings-ices>. Accessed on: 07 May 2021



Orkney's Community Wind Farm Project - Faray

EIA Report Figure 18.2
ScotMap Inshore Fishing – Monetary Value