

# Viking Wind Farm Construction Compound - Main Compound

Volume 3: Figures

**Environmental Impact Assessment Report** 





## June 2019



### **VOLUME 3 FIGURES: TABLE OF CONTENTS**

#### **Chapter 1: Introduction**

- Figure 1.1 Site Location
- Figure 1.2 Proposed Development
- Figure 1.3 Construction Compounds in relation to Viking Wind Farm

#### **Chapter 2: Development Description**

Figure 2.1 Indicative Detailed Design Drawing

#### **Chapter 4: Landscape and Visual Amenity**

Figure 4.1 Zone of Theoretical Visibility (ZTV) of Proposed Main Construction Compound

#### **Chapter 5: Ornithology**

Figure 5.1 Breeding Bird Nominal Territory Centres

#### Chapter 6: Noise

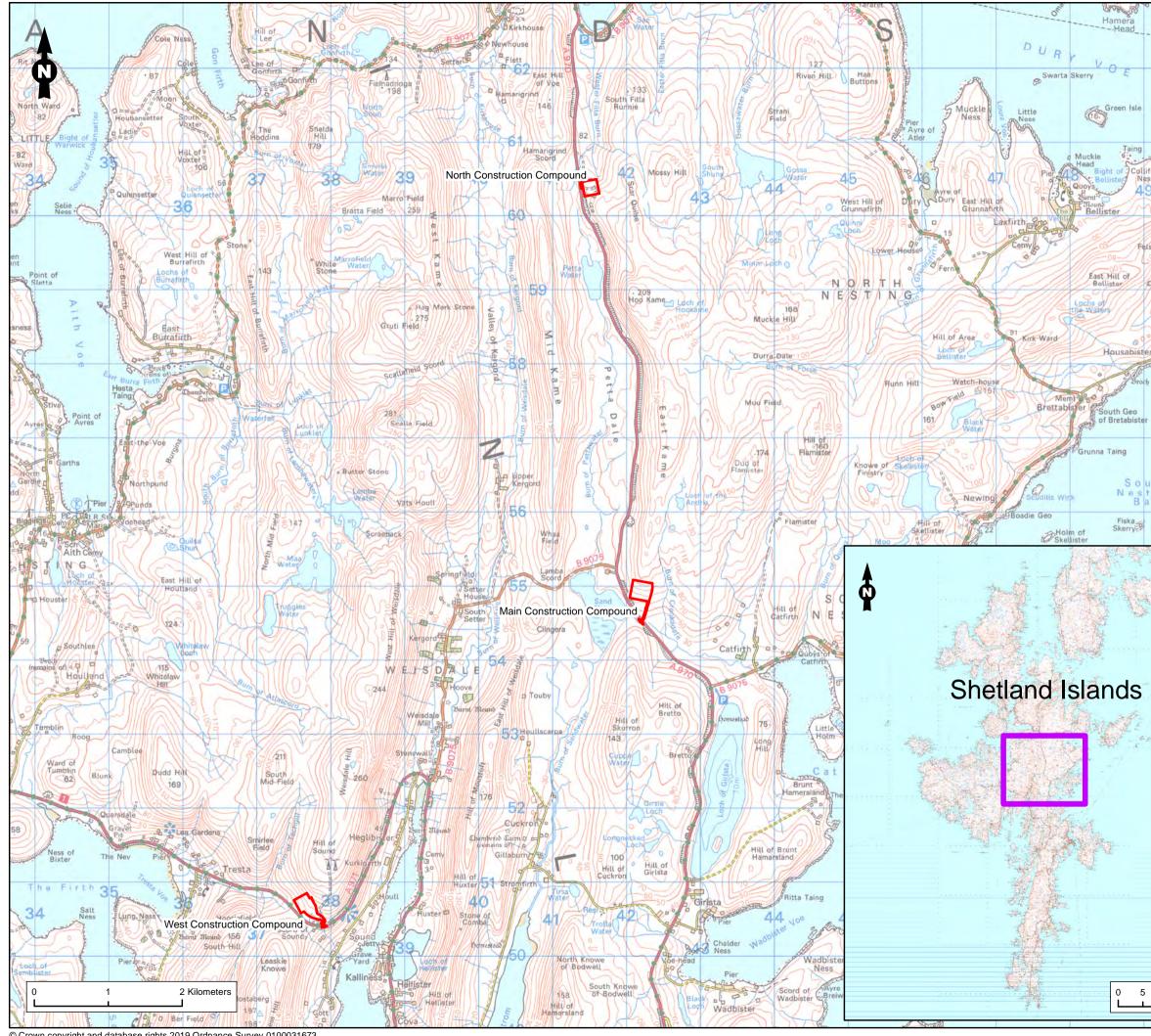
- Figure 6.1 Noise Contour Plot (Scenario 1)
- Figure 6.2 Noise Contour Plot (Scenario 2)
- Figure 6.3 Noise Contour Plot (Scenario 3)

#### **Chapter 8: Hydrology**

- Figure 8.1 Surface Water Setting
- Figure 8.2 Bedrock Geology
- Figure 8.3 Superficial Geology
- Figure 8.4 Hydrogeology
- Figure 8.5 Private Water Supplies

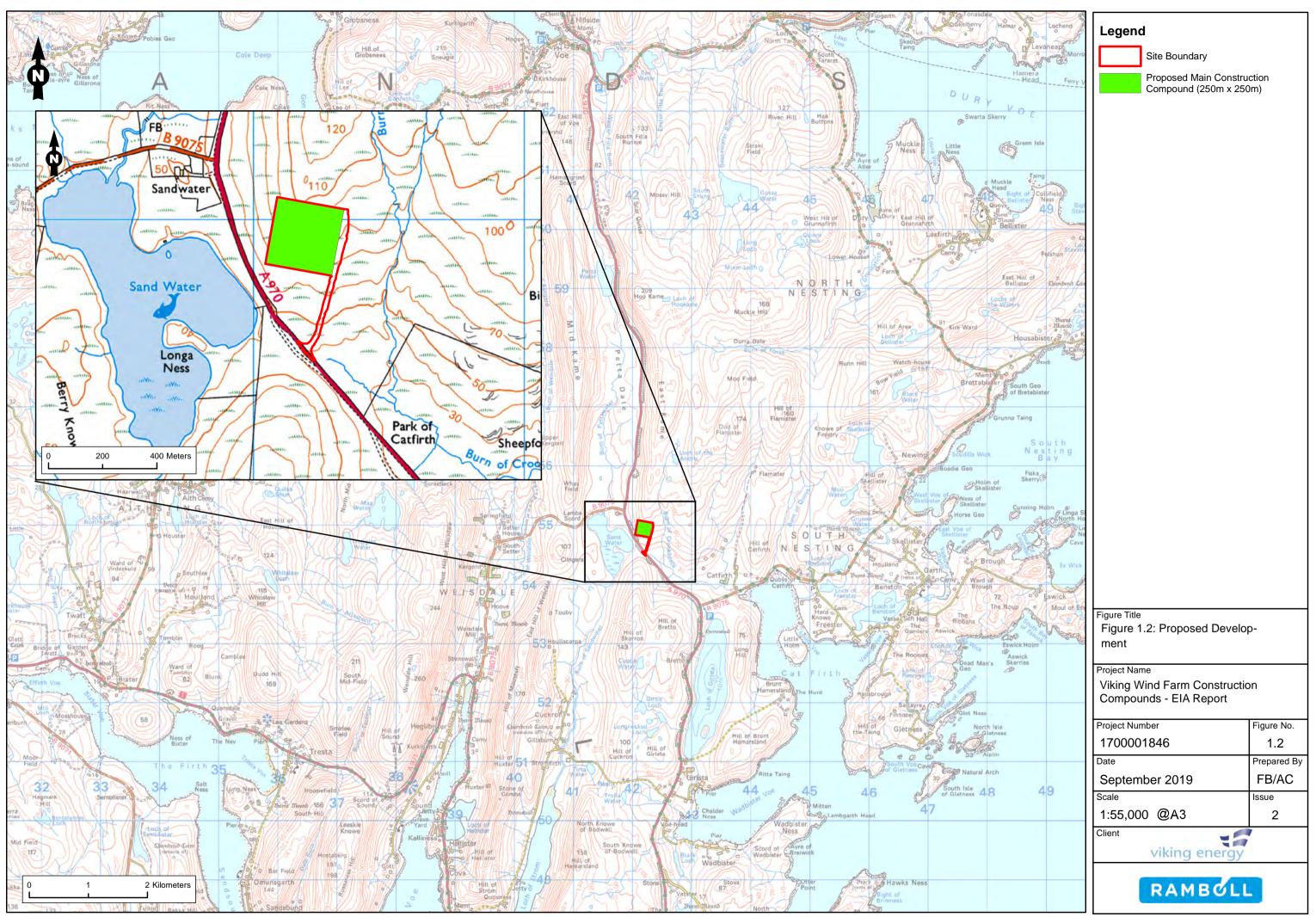
#### **Chapter 9: Cultural Heritage and Archaeology**

Figure 9.1 Cultural Heritage Assets

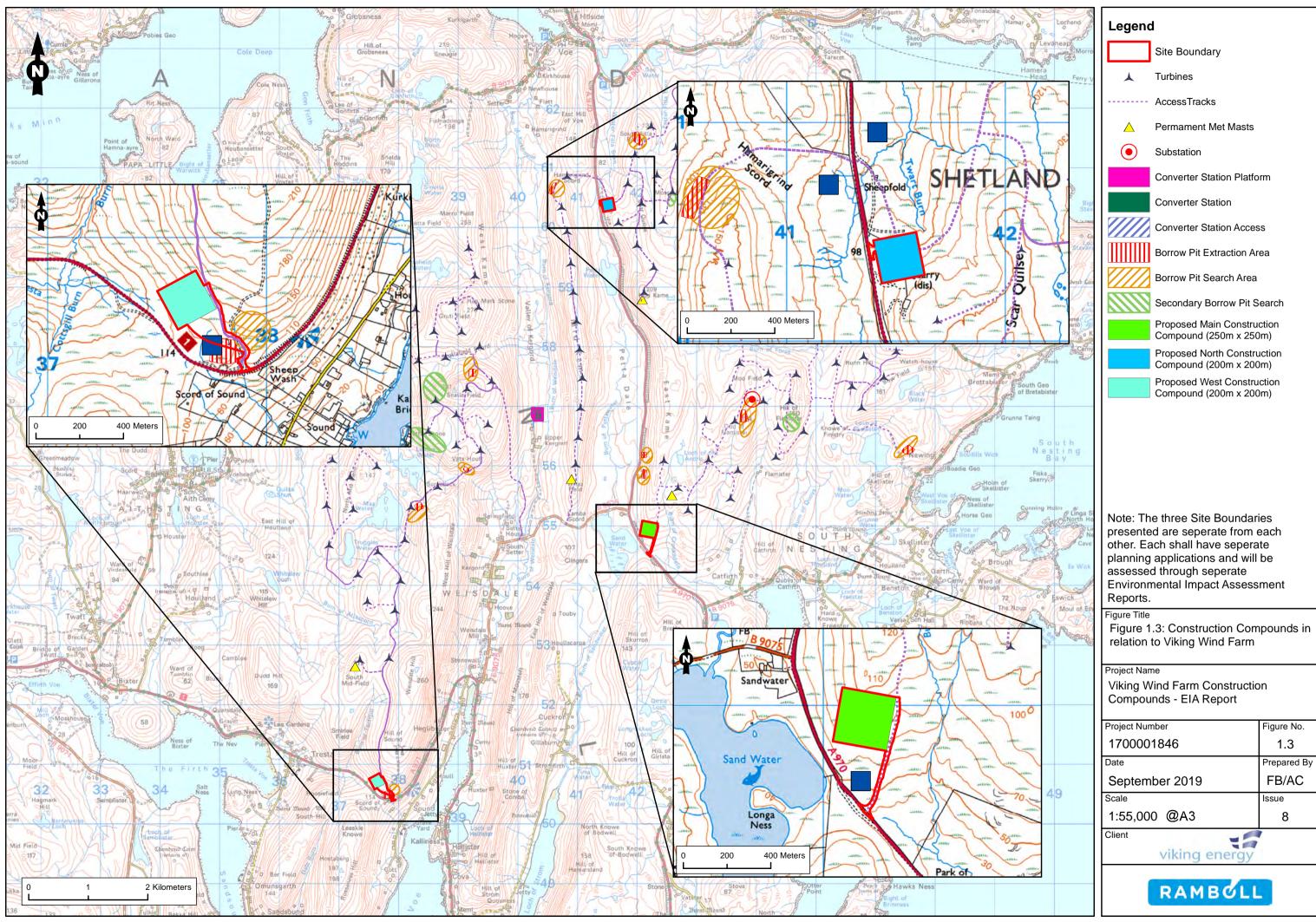


© Crown copyright and database rights 2019 Ordnance Survey 0100031673

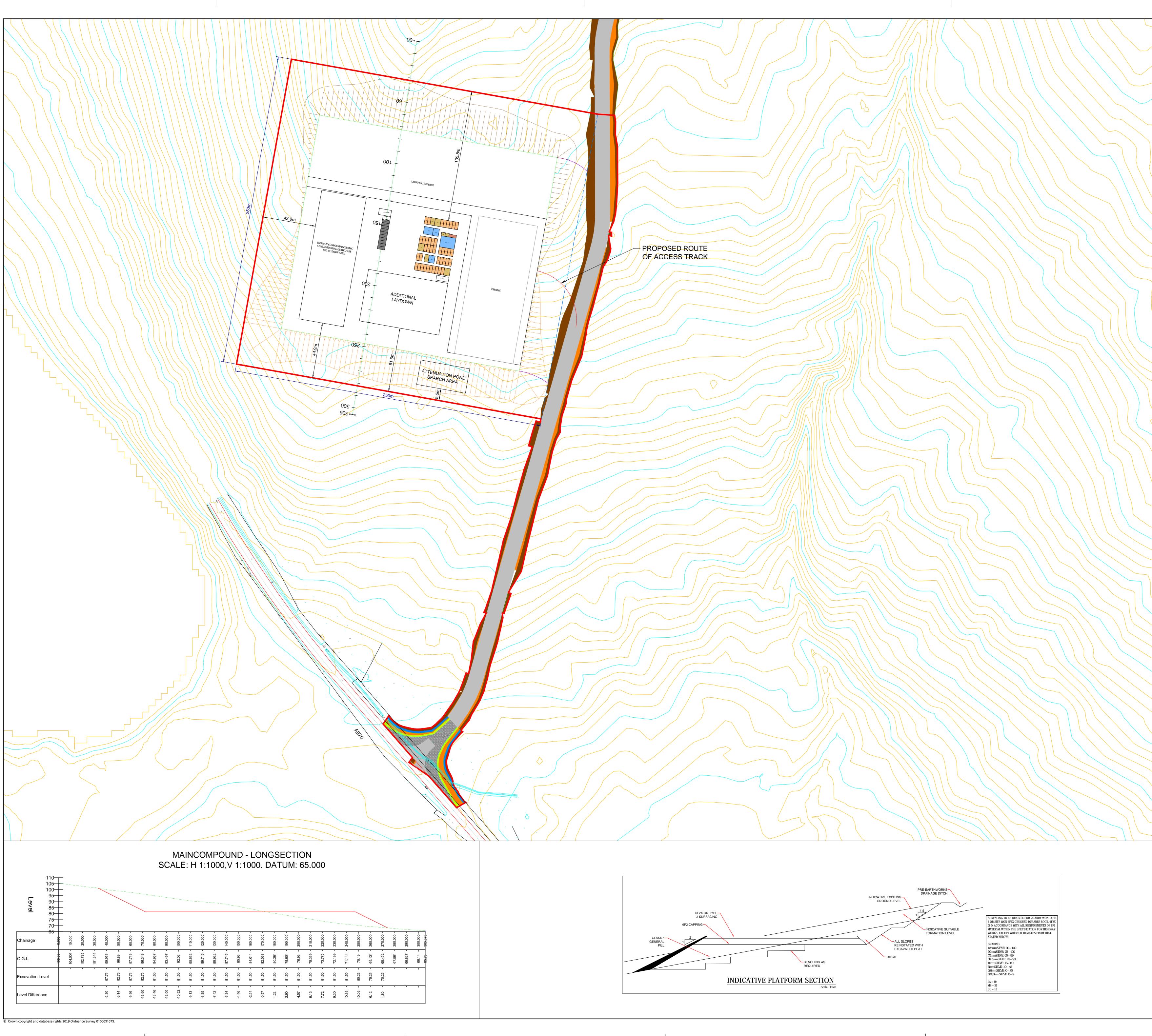
623	<b></b>	
Ferry V	Legend	
	Site Boundary	
ifield 50		
9 Bight of Stavaness		
5 Chim		
Ishun Stavaress		
Northbanks Blumbersd Laien		
10000		
Burne CO		
er Stala Kirkabister		
Cemy 55		
Ura Stack P		
r		
uth		
ting ay		
ph.		
	Note: The three Site Boundar	
	presented are seperate from e other. Each shall have sepera	
	planning applications and will assessed through seperate	be
111-100 \$ 111-11-120	Environmental Impact Assess	ment
·	Reports. Figure Title	
Alexandre Constant of the Cons	Figure 1.1: Site Location	
t-		
	Project Name Viking Wind Farm Const	ruction
	Compounds - EIA Repor	
	Project Number	Figure No.
	1700001846	1.1
	Date Sontombor 2010	Prepared By
	September 2019 Scale	FB Issue
	1:50,000 @A3	2
	Client	
	viking energy	
10 Kilometers	RAMBOLL	
	MAMBOLI	2



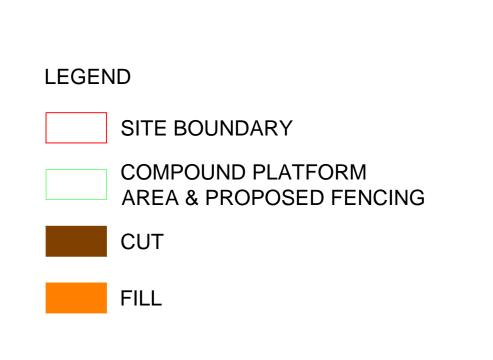
 $\ensuremath{\textcircled{\sc c}}$  Crown copyright and database rights 2019 Ordnance Survey 0100031673



© Crown copyright and database rights 2019 Ordnance Survey 0100031673



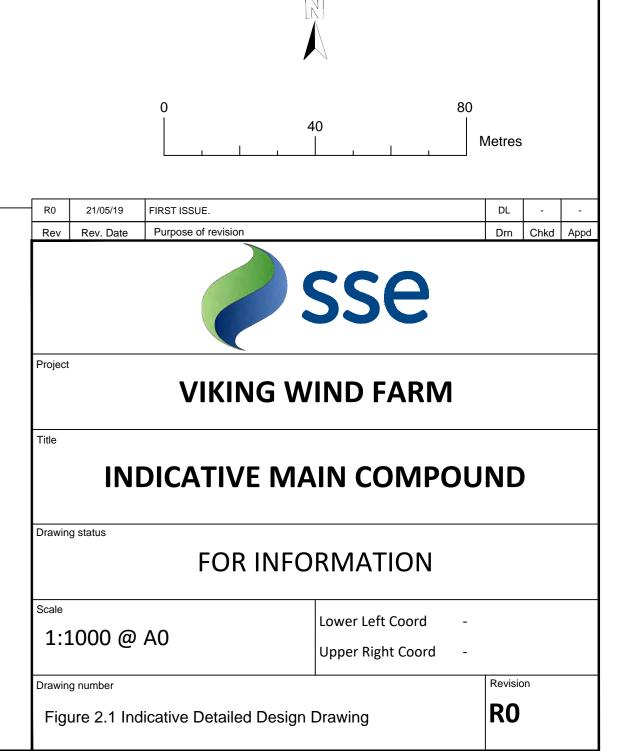
\_\_\_\_\_

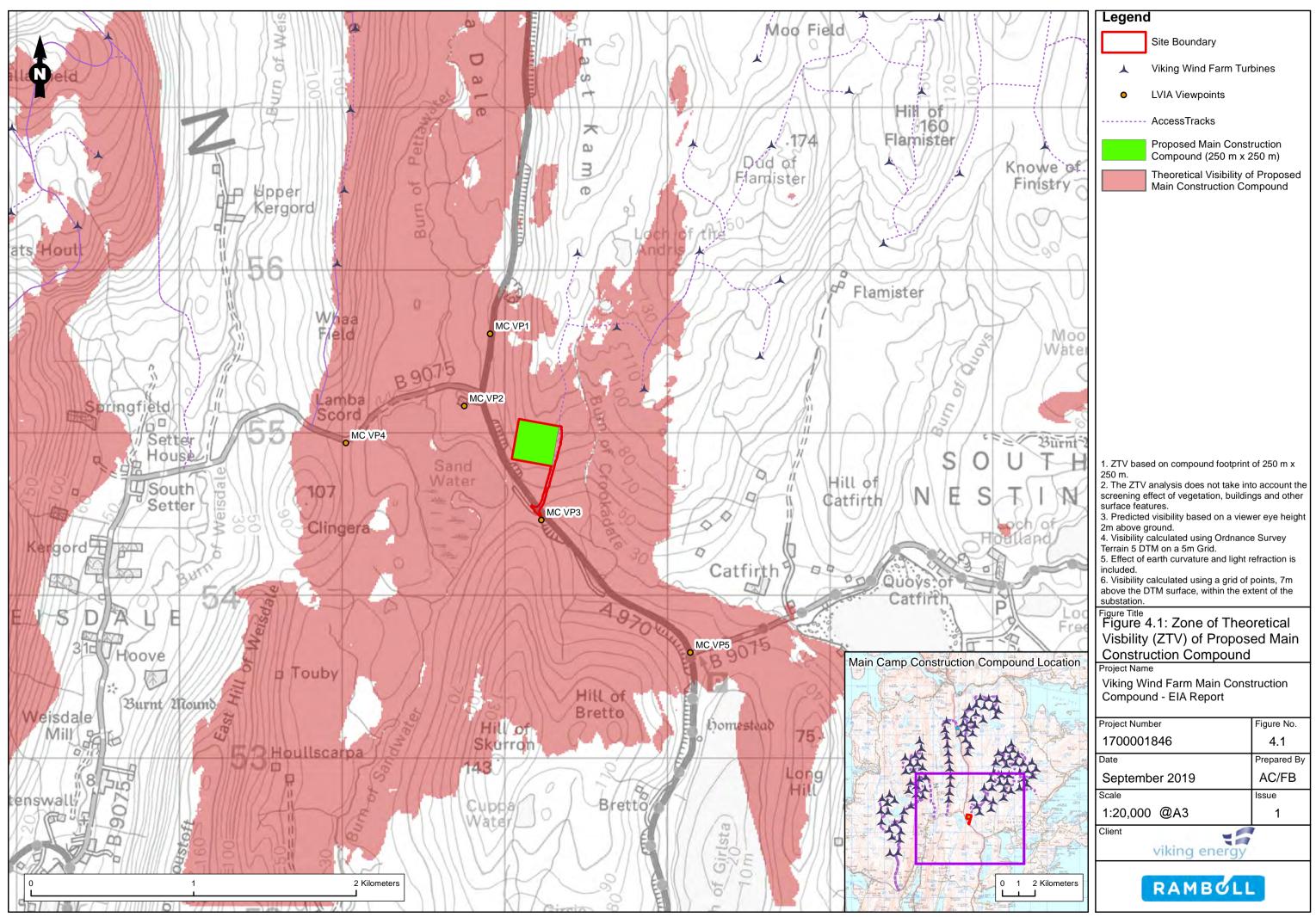


NOTES

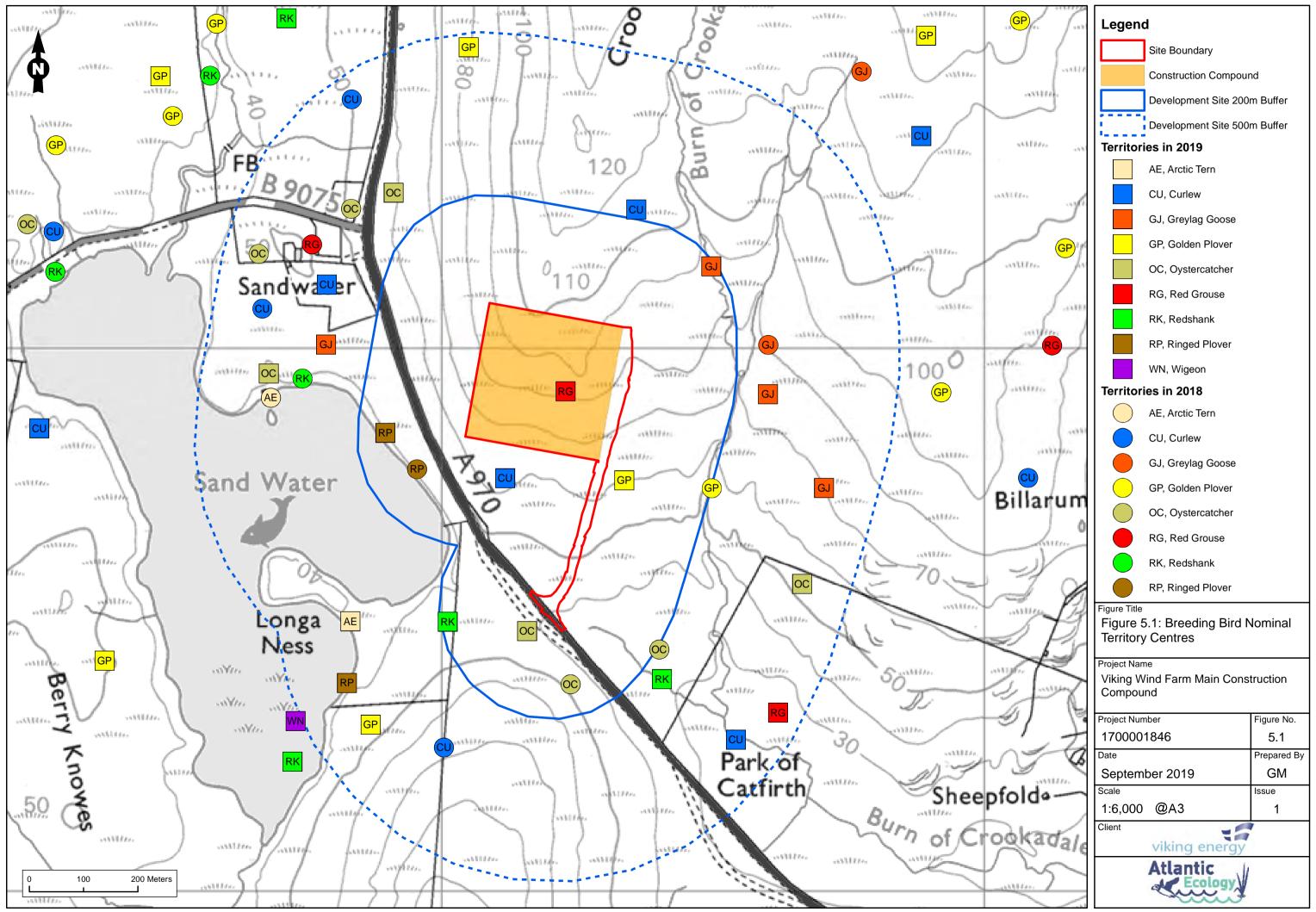
- 1. DIMENSIONS ARE IN METRES.
- 2. PLATFORM EARTHWORKS DESIGN AND LAYOUT INDICATIVE ONLY. FINAL DESIGN BY VIKING CIVIL CONTRACTOR.
- FENCING TO BE PROVIDED TO SECURE COMPOUND(S) BY CIVIL CONTRACTOR (MAX 2.5m TALL).
- 4. DRAINAGE DESIGN BY CIVIL CONTRACTOR AND AGREED WITH SEPA AND LOCAL AUTHORITY.
- 5. ALL BUILDINGS PROPOSED (ANNOTATED AS OFFICE; TOILETS; KITCHEN; MEETING ROOM; SHOWER ROOM; FIRST AID; OPEN AREA/RECEPTION) WILL BE TEMPORARY AND MODULAR. THE MODULAR UNITS WILL BE OF TYPICAL DIMENSIONS AS SHOWN IN THIS DRAWING (INDICATIVE SIZE 6M LONG, 2.4M WIDE AND MAX 7M HIGH). EXACT MODULAR BUILDING SPECIFICATIONS WOULD VARY ACCORDING TO THE MANUFACTURER/ SUPPLIER.
- CONNECTION FOR PRIVATE WATER SUPPLY TO BE AGREED WITH LOCAL AUTHORITY.
   TOWER LIGHTING TO BE PROVIDED AS
- TOWER LIGHTING TO BE PROVIDED AS REQUIRED.
   8. WHEEL-WASH FACILITIES TO BE PROVIDED.
- WHEEL-WASH FACILITIES TO BE PROVIDED.
  CABINS INSIDE THE COMPOUND AREA WILL BE TEMPORARY (E.G. OFFICES, TOILETS, KITCHENS ETC).
- 10. COMPOUND PLATFORM SURFACED AS DESCRIBED IN INDICATIVE PLATFORM SECTION

RAMBOLL UPDATE TO SSE DRAWING 08/07/19 BY: AS

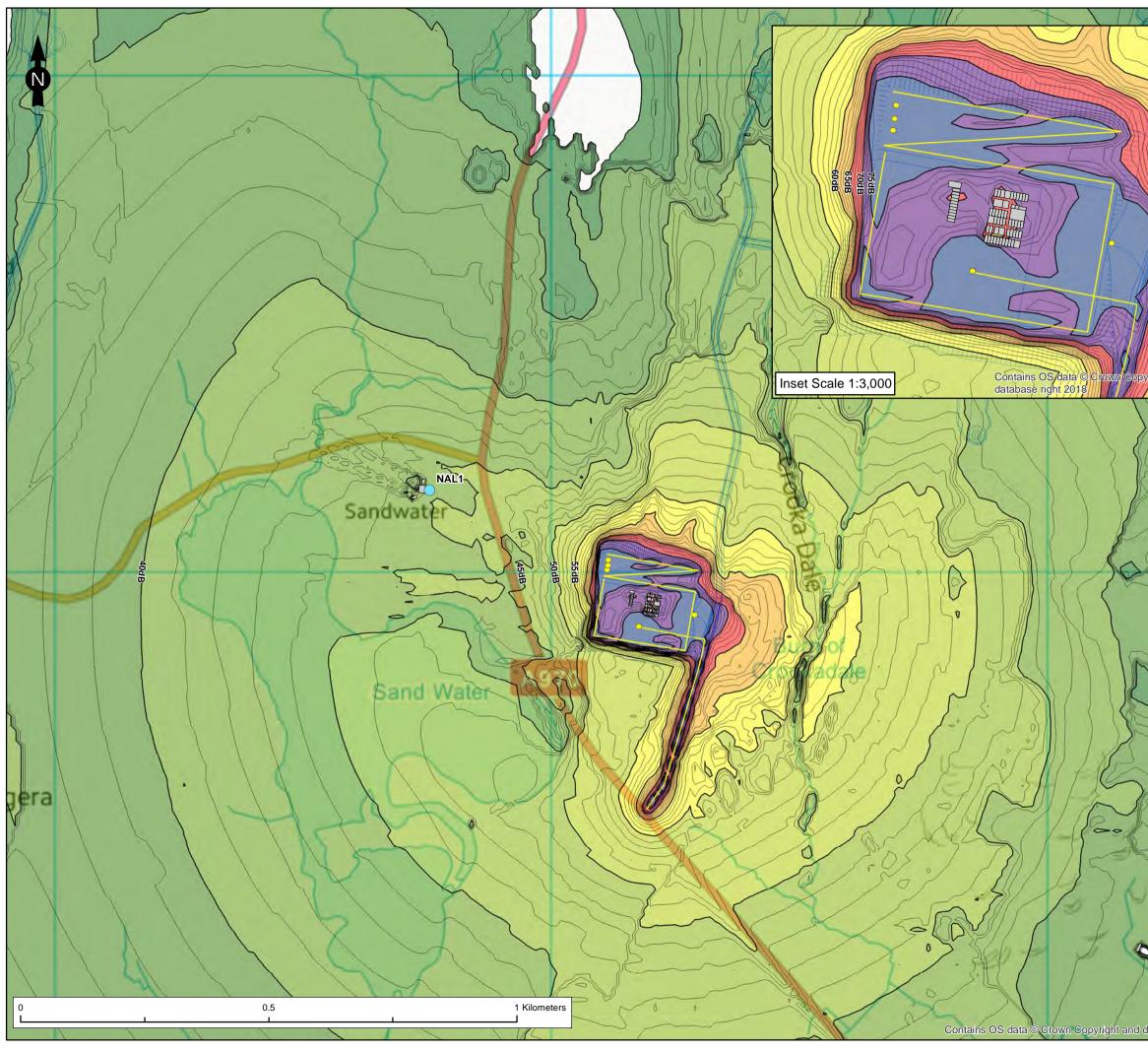




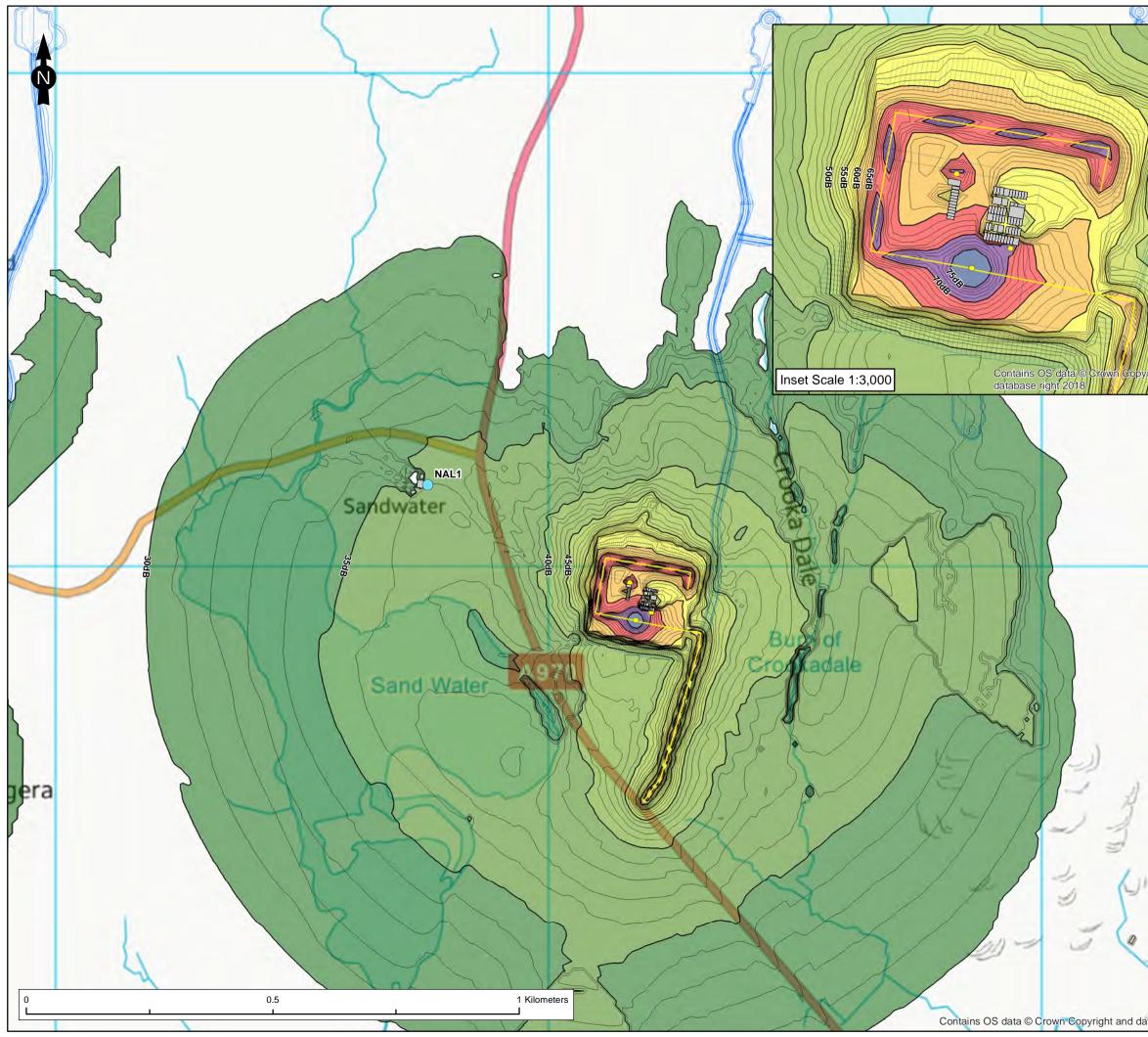
Reproduced from Ordnance Survey digital map data © Crown copyright 2017. All rights reserved. Licence number 100040631



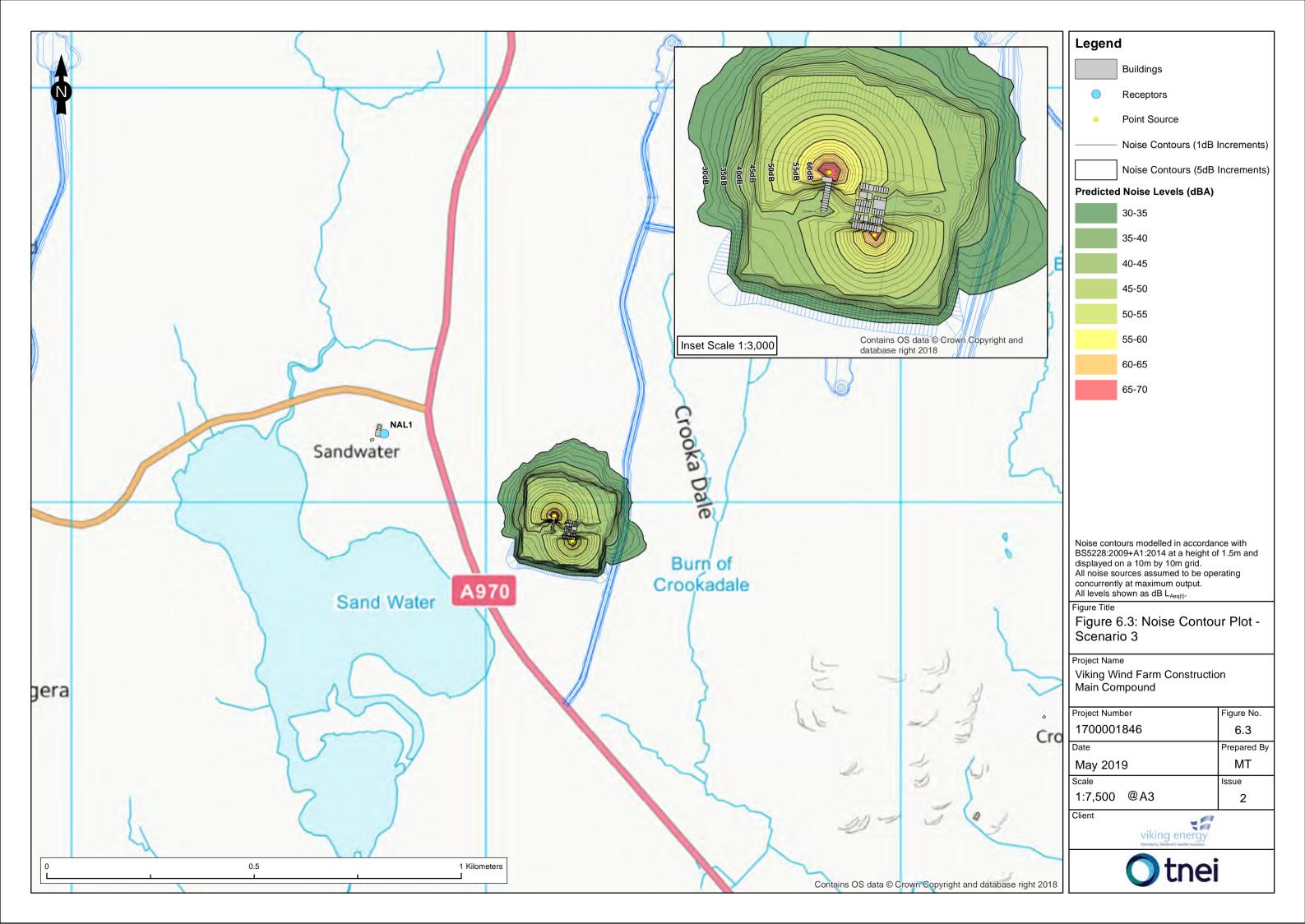
Reproduced from Ordnance Survey digital map data © Crown copyright 2017. All rights reserved. Licence number 100040631

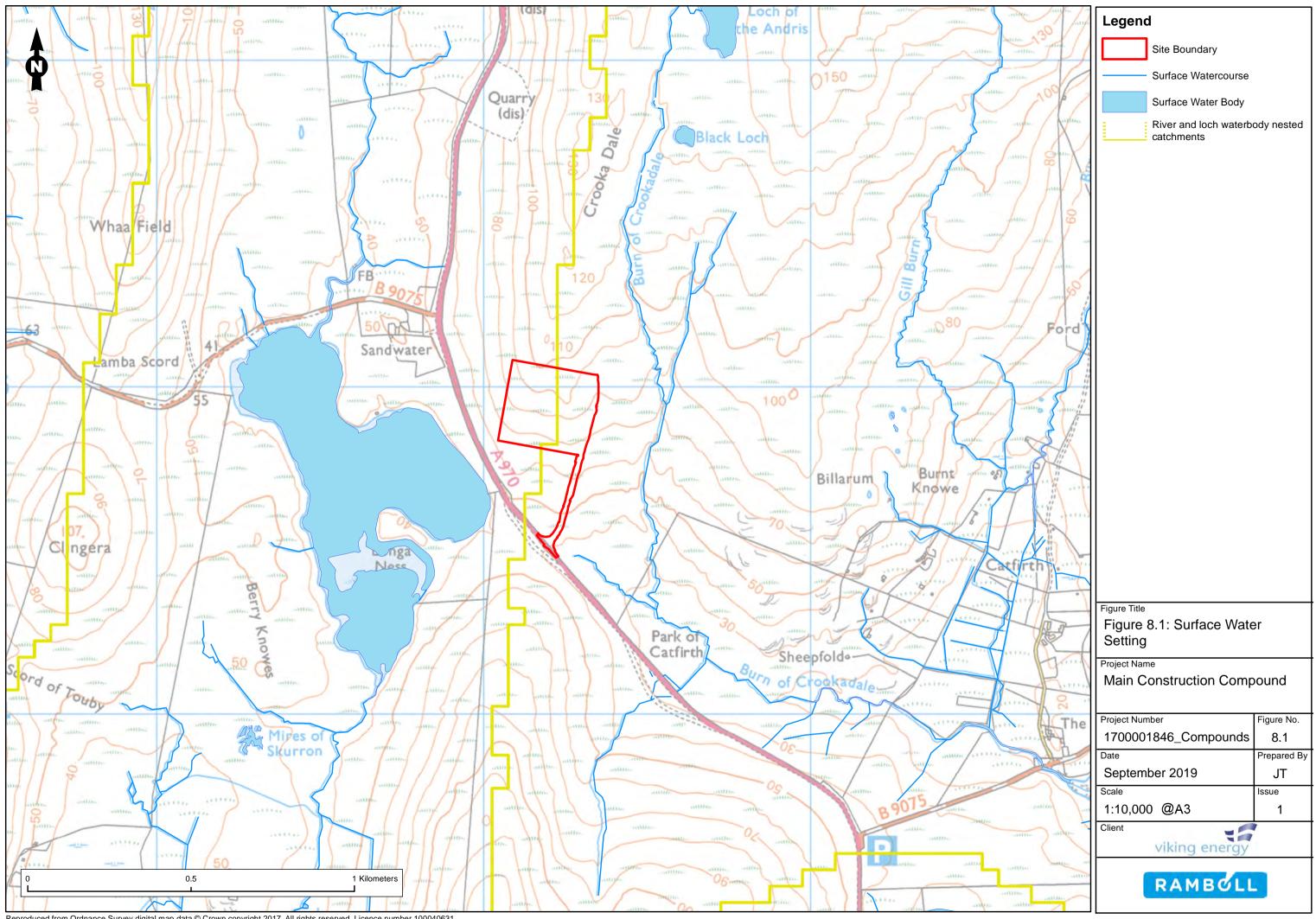


BY 11 L	Logona	4	
	Legend		
		Buildings	
		Receptors	
	•	Point Sources	
		Moving Point Sources	
		Noise Contours (1dB	Increments)
		Noise Contours (5dB	Increments)
XXX	Predicted Noise Levels (dBA)		
		30-35	
E		35-40	
		40-45	
1 B		45-50	
yright and		50-55	
The second		55-60	
115 1/		60-65	
Sor		65-70	
55		70-75	
12		75 >	
(Pri		80-85	
5			
35	Noise contours modelled in accordance with BS5228:2009+A1:2014 at a height of 1.5m and displayed on a 10m by 10m grid. All noise sources assumed to be operating concurrently at maximum output. All levels shown as dB $L_{Aeq(t)}$ .		
	Figure Title		
SKR/	Figure 6.1: Noise Contour Plot - Scenario 1		
THIS IS	Project Name		
	Viking Wind Farm Construction Main Compound		
SZ	Project Num	ber	Figure No.
e cr	1700001846 6.1		
1 cost	Date Prepared By May 2019 MT		
12th	Scale	19	Issue
18 V	1:7,500	@A3	2
	Client	viking energy Harresting Shetland's natural resources	
database right 2018		Otnei	

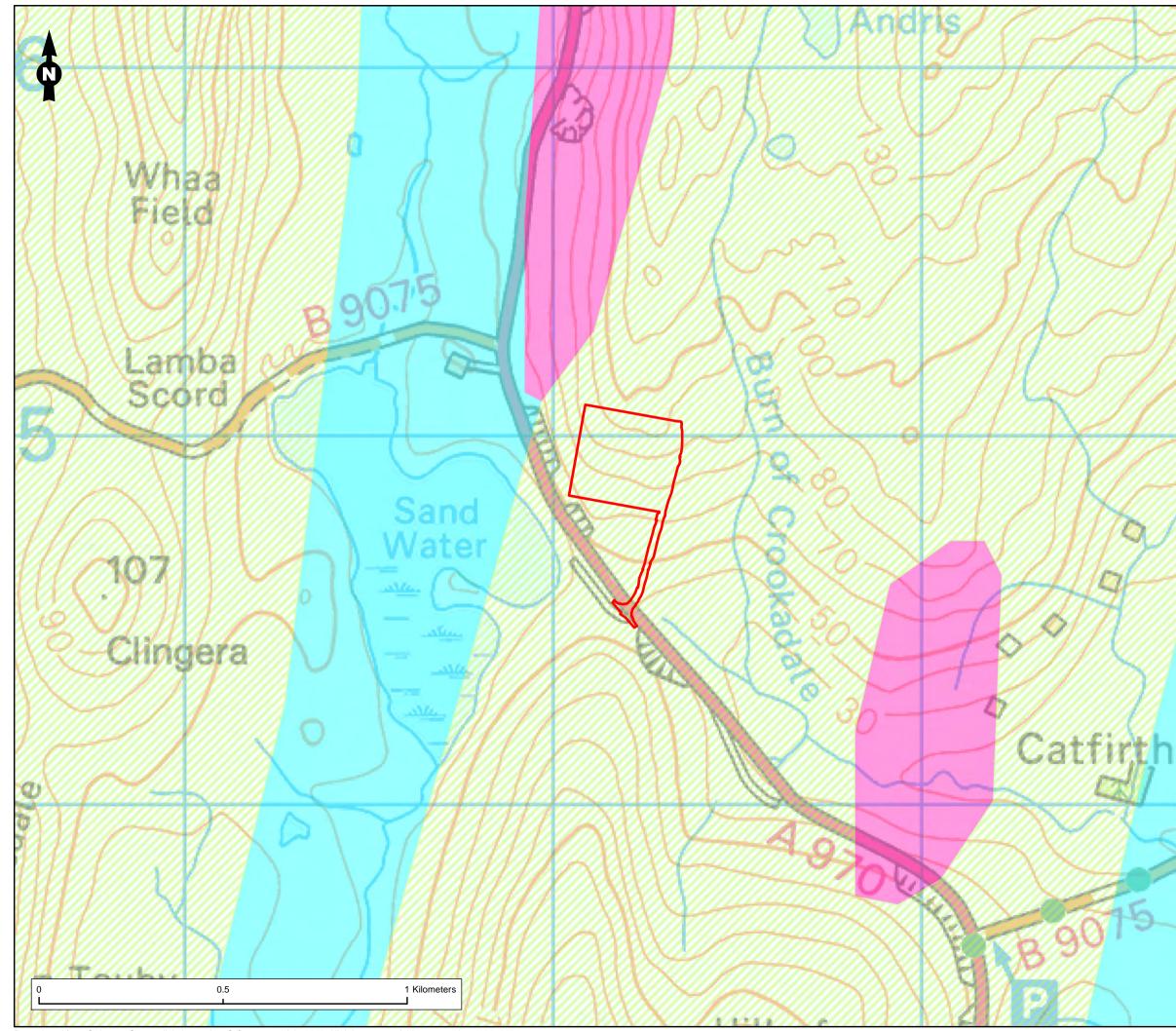


	Legend	k	
		Buildings	
		Receptors	
	•	Point Sources	
~		Moving Point Sources	
		Noise Contours (1dB	Increments)
		Noise Contours (5dB	Increments)
	Predicted	l Noise Levels (dBA)	
		30-35	
		35-40	
		40-45	
		45-50	
yright and		50-55	
3		55-60	
1		60-65	
2		65-70	
8		70-75	
En		75 >	
- 7		80-85	
0	BS5228:20	ours modelled in accordar 09+A1:2014 at a height of on a 10m by 10m grid.	
	All noise sources assumed to be operating concurrently at maximum output. All levels shown as dB $L_{Aeq(i)}$ .		
1	Figure Title	C. O. Maine Orat	
5	Figure 6.2: Noise Contour Plot - Scenario 2		
5	Project Name		
5	Viking Wind Farm Construction Main Compound		
۵	Project Num	ber	Figure No.
Cro	170000	1846	6.2
	Date Prepared By		
5	May 201 Scale	19	MT Issue
	1:7,500	@A3	2
2	Client		
atabase right 2018		Otnei	

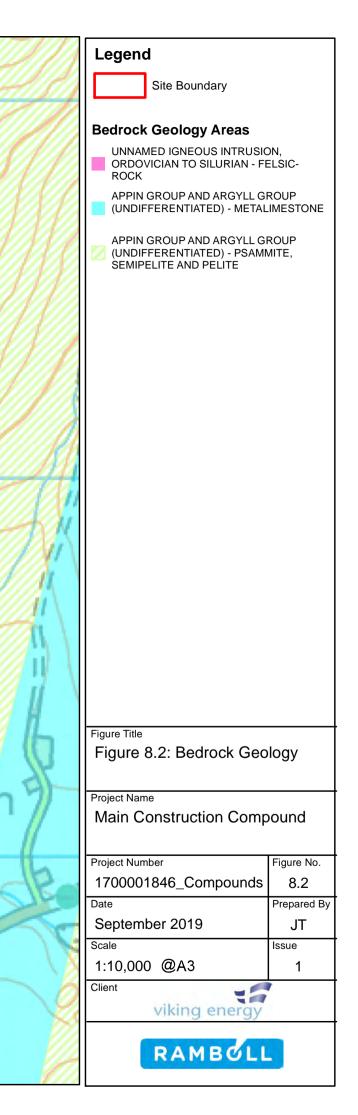




Reproduced from Ordnance Survey digital map data © Crown copyright 2017. All rights reserved. Licence number 100040631



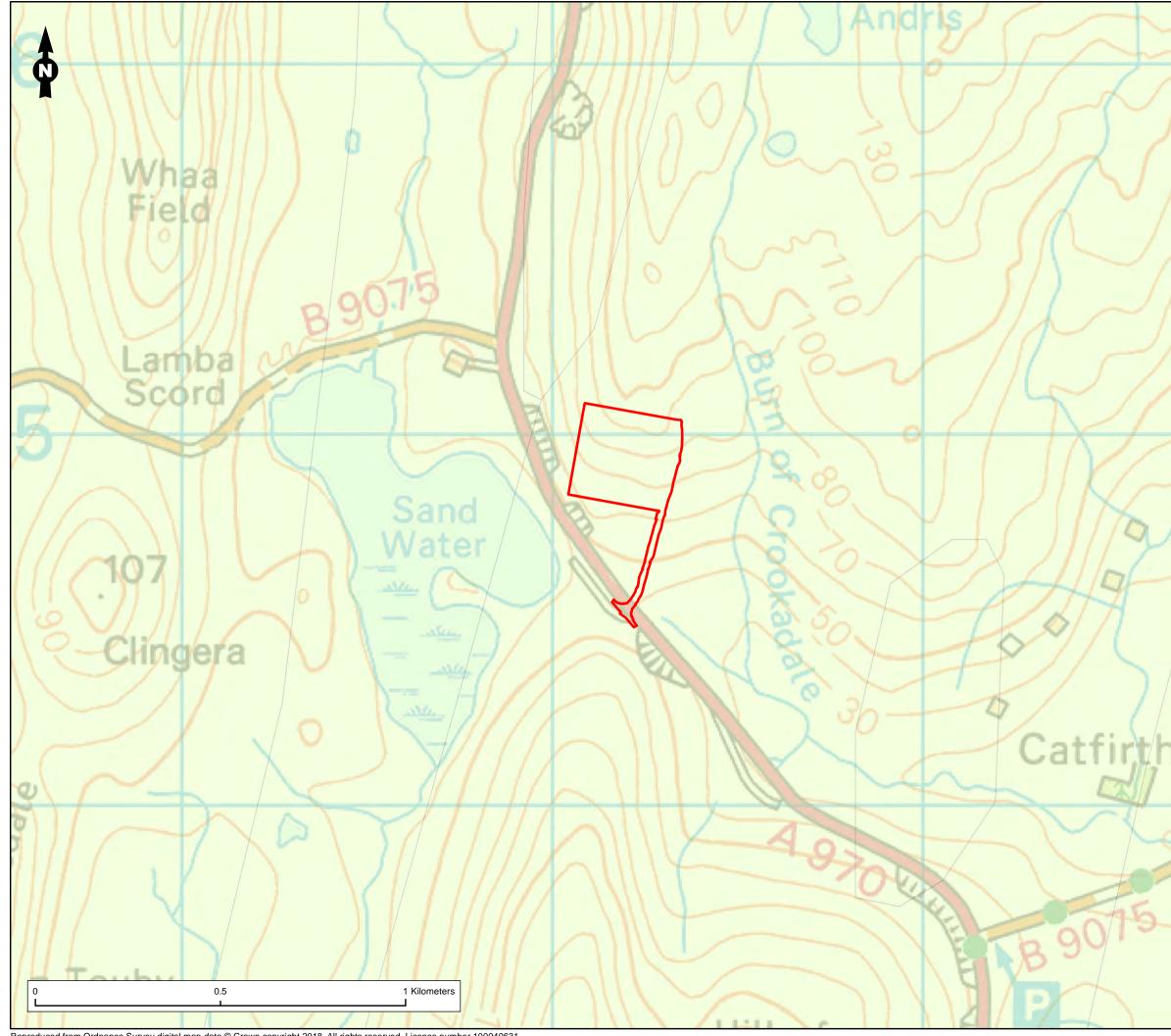
Reproduced from Ordnance Survey digital map data © Crown copyright 2018. All rights reserved. Licence number 100040631





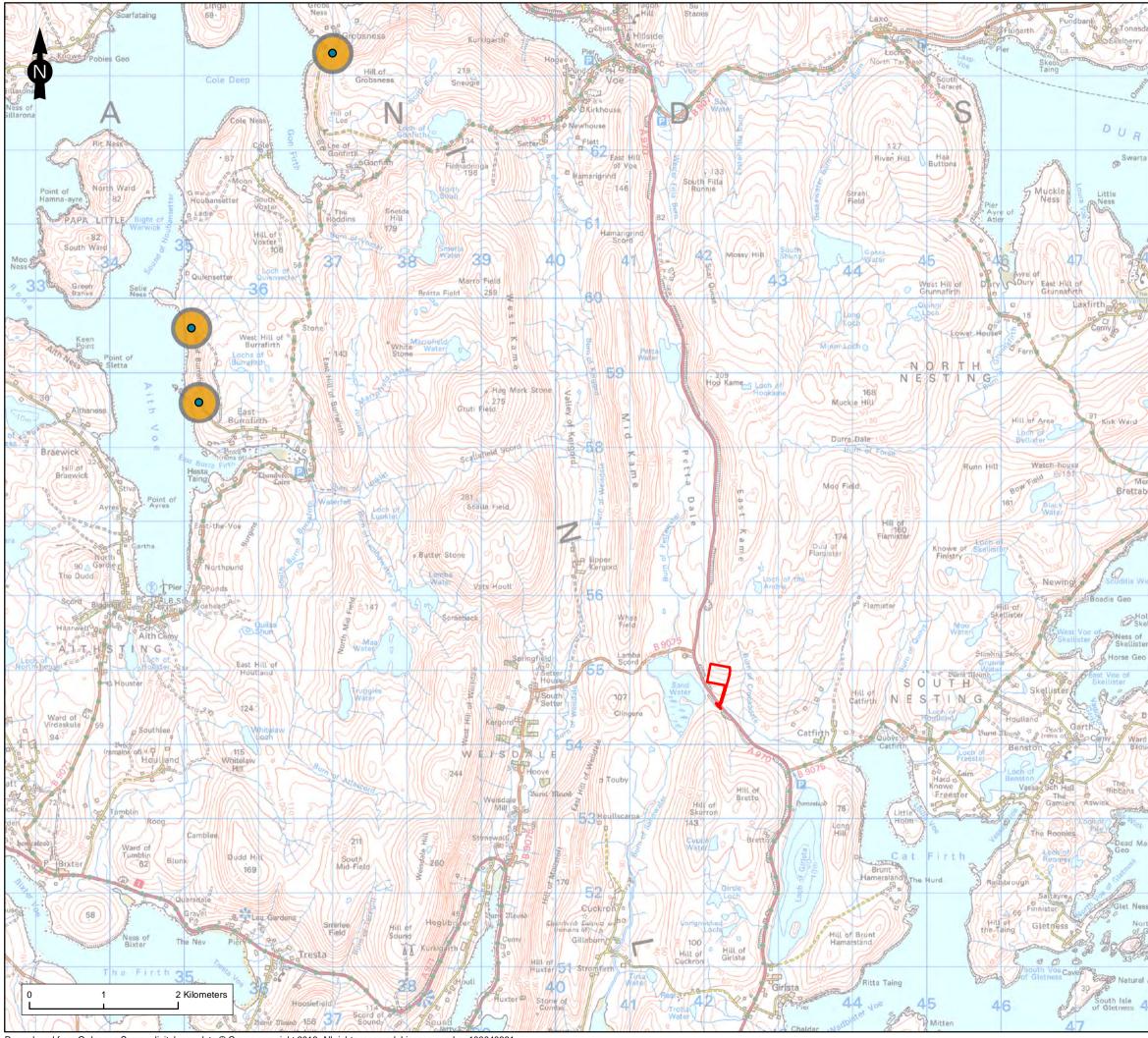
Reproduced from Ordnance Survey digital map data © Crown copyright 2018. All rights reserved. Licence number 100040631

	Legend	
	Peat	
	Devensian Till - Diami	cton
1		
	Figure Title	
1	Figure 8.3: Superficial G	eology
-	Project Name	
	Main Construction Comp	ound
	Project Number 1700001846_Compounds	Figure No. 8.3
	Date	Prepared By
	September 2019	JT
	Scale 1:5,000 @A3	lssue 1
	Client	
	viking energy	
	RAMBOLL	



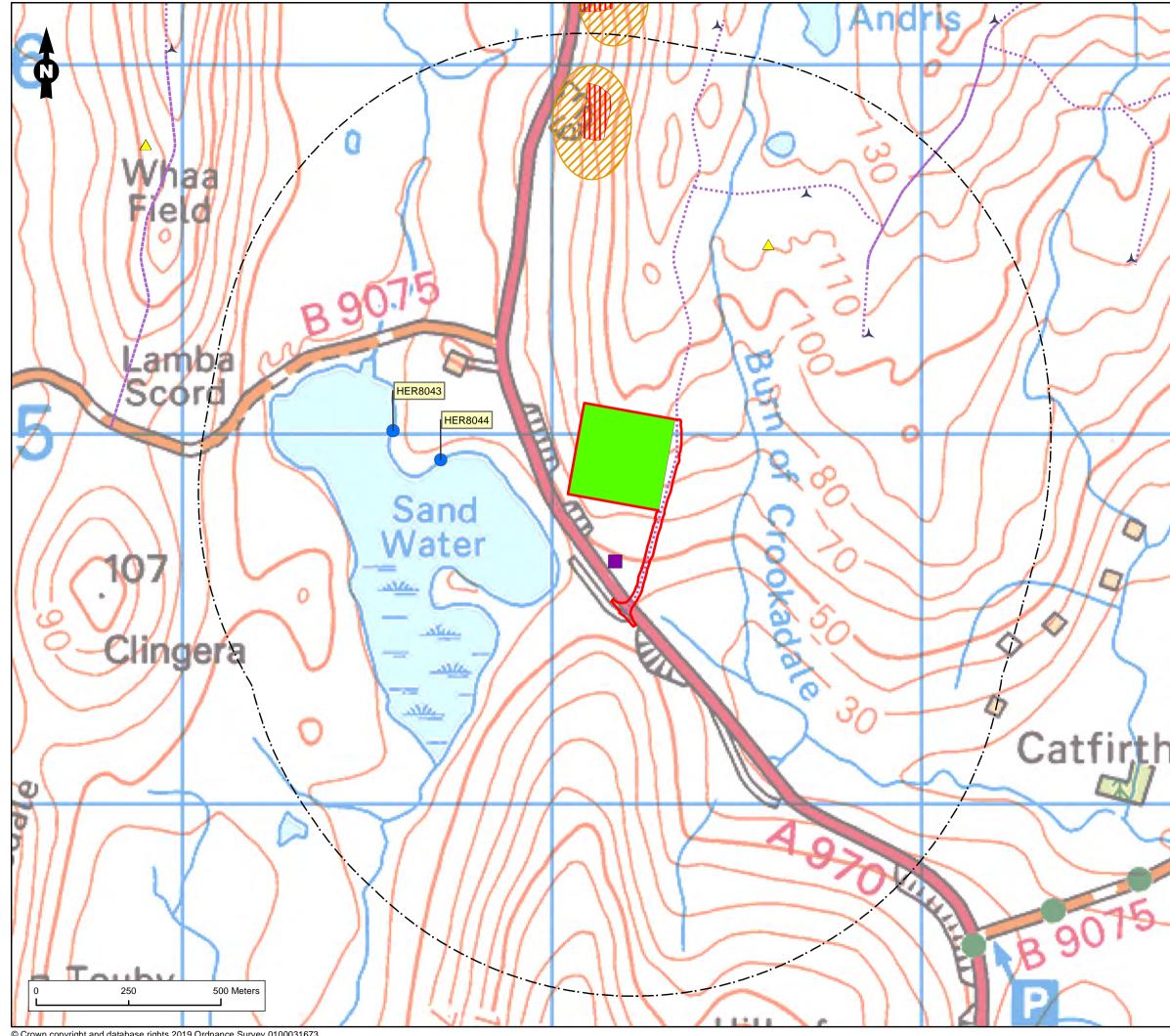
Reproduced from Ordnance Survey digital map data © Crown copyright 2018. All rights reserved. Licence number 100040631

Legend	
Site Boundary	
Hydrogeology (625k)	
Low productivity aquifer	
116	
///	
1511	
1 10	
TH	
/ //	
11	
11	
11	
Figure Title	
Figure 8.4: Hydrogeology	
A	
Project Name Main Construction Compo	ound
Project Number F	igure No.
1700001846_Compound	8.4
	Prepared By
September 2019	JT
1:10,000 @A3	1
Client	
viking energy	
RAMBOLL	
KAMBOLL	



Reproduced from Ordnance Survey digital map data © Crown copyright 2018. All rights reserved. Licence number 100040631

ale	Legend	
Hamar & Loi	Site Boundary	
Levanea		
Hamera	Private Water Supplies	
Head	250m Private Water S	upply Buffer
Y VOF		
Skerry		
Green Isle		
Taing		
Head Bight of Collifie Ness		
Burnt 49		
Bellister		
P6 Se Felsh		
08		
East Hill of Bellister		
Lochs of the Waters		
Housabister		
Broch		
Ister South Geo		
of bretabister		
Grunna Taing		
Sou i Nesti		
вау		
Fiska Skerryc Uister		
Cunning Holm		
Q GRO		
1 230	Figure Title	
rough	Figure 8.5: Private Water Supplies	r
and	Project Name	
72 0 5 Esw The Noup 0 M	Main Construction Comp	ound
Contraction of the second		
Eswick Holm	Project Number	Figure No.
Aswick Skerries	1700001846_Compounds	8.5
CD	Date September 2010	Prepared By JT
	September 2019 Scale	JI
s th Isle	1:50,000 @A3	1
aletness	Client	,
(e) Aiplin	viking energy	
Arch		
8 49	RAMBOLL	
	1	



<sup>©</sup> Crown copyright and database rights 2019 Ordnance Survey 0100031673

-			
11	Legenc	1	
-51		Cultural Heritage As	set
(A)		Site Boundary	
(//	<u> </u>	Cultural Heritage Ou Area	uter Study
111	*	Turbines	
11/1		AccessTracks	
1117	$\land$	Permament Met Ma	sts
111		Borrow Pit Extractio	n Area
///		Borrow Pit Search A	vrea
1//		Consented Construct compound to be rep Proposed Construct Compound	laced by
18		Proposed Main Can Construction Compo	· ·
R			
11!			
1."			
11			
1			
ii			
11			
II \			
L	Figure Title		
	Figure 9 Assets	9.1: Cultural Herit	age
h9)-	Project Nam	e	
"//	Viking V	Vind Farm Const	
		unds - Main Com	
de	Project Num 1700001		Figure No. 9.1
JIP-	Date		Prepared By
1	Septem!	ber 2019	GM Issue
12	1:10,000	) @A3	1
10	Client	-	
20	viking energy		
1		RAMBOLL	



