

Date of issue: 30/10/2020

Period covered: 21/10/20 – 04/11/20

Notice number: 013

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Construction of the Neart na Gaoithe (NnG) Offshore Wind Farm has commenced. This notice is updated weekly giving information on the progress and resources involved in the offshore works. The intention is to give an overview of activities and vessels involved. Questions regarding the operations are welcomed, preferably well in advance of each construction activity.

Current works include;

1. Casing and pile installation within the wind farm area;
2. Guard vessel duties;
3. Borehole campaign in the wind farm area; and,
4. Boulder/debris clearance in the wind farm area and export cable corridor.

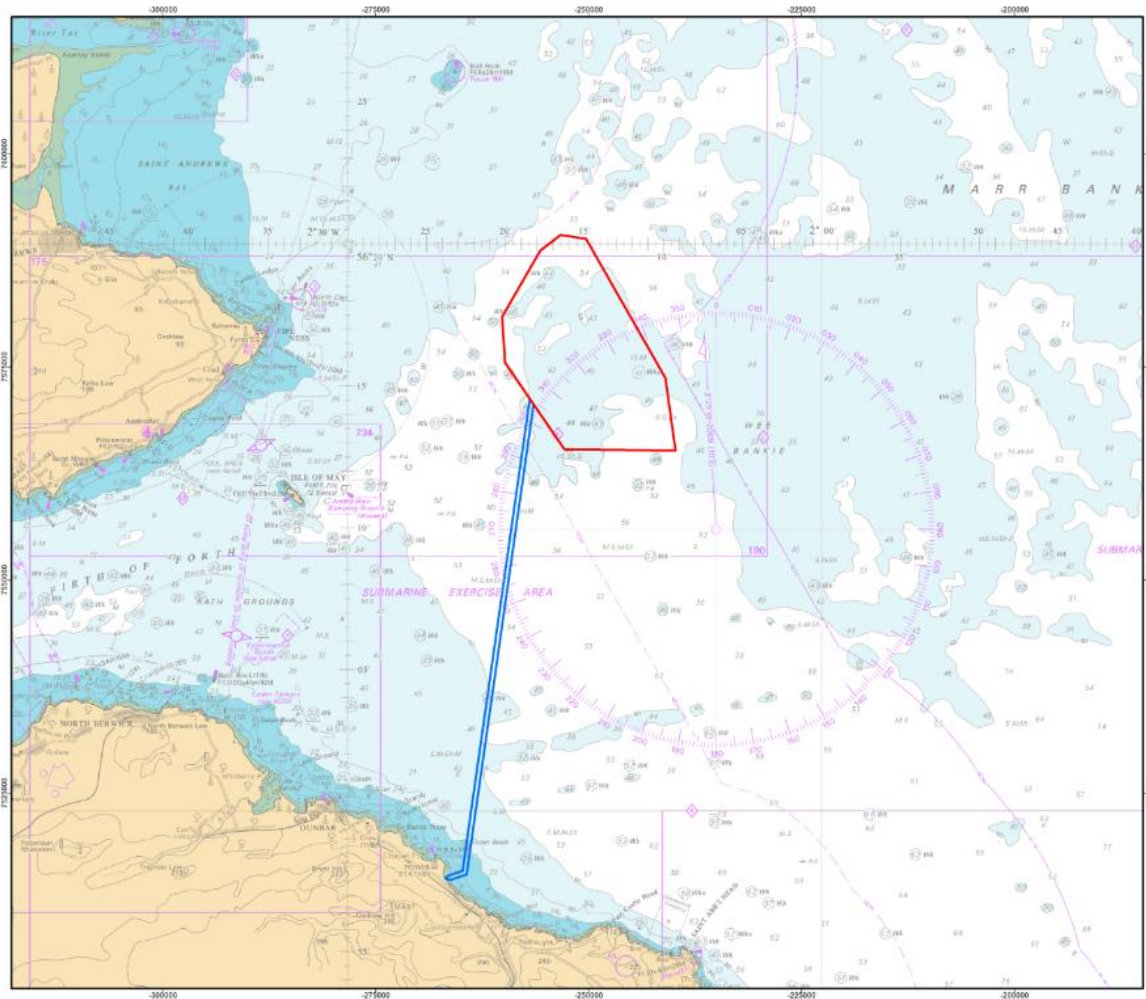


Figure 1 Neart na Gaoithe (NnG) Offshore Wind Farm area and Export Cable Corridor

1 Marine Coordination Contact Details

The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore-based representative.

Table 1 Marine Coordination Contact Details

Telephone number (daytime operations):	+44 (0)7508421406 / +44 (0)1890 751415
Emergency contact (24/7):	+44 (0)7508421406 / +44 (0)1890 751415
Email:	nng.mc@smchse.com
Address:	NnG Offshore Wind Farm Marine Coordination Centre Gungreen Basin Eyemouth TD14 5SD

2 Completed Operations

2.1 Drilling and Casing Installation

Casing Installation Operations have been successfully completed at the locations listed below, by Saipem Ltd. The co-ordinates of each casing installed and the Casing stick-up (above seabed) are also provided in Table 2.

Table 2 Casing Installation – Completed Locations

Turbine ID	Pile Location 1 (P1)		Pile Location 2 (P2)		Pile Location 3 (P3)	
	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
	CASING STICK-UP (m)		CASING STICK-UP (m)		CASING STICK-UP (m)	
NNG-A15	2° 19.475' W	56° 15.482' N	2° 19.501' W	56° 15.474' N	2° 19.476' W	56° 15.466' N
	1.922m		1.604m		1.830m	
NNG-F01	2° 9.906' W	56° 12.798' N	2° 9.931' W	56° 12.790' N	2° 9.907' W	56° 12.782' N
	1.221m		1.112m		1.011m	
NNG-B07	2° 15.813' W	56° 13.703' N	2° 15.838' W	56° 13.694' N	2° 15.813' W	56° 13.686' N
	1.256m		1.288m		1.213m	
NNG-D15	2° 16.312' W	56° 16.384' N	2° 16.337' W	56° 16.376' N	2° 16.312' W	56° 16.368' N
	1.240m		1.444m		1.477m	
NNG-A06	2° 16.746' W	56° 13.256' N	2° 16.771' W	56° 13.248' N	2° 16.746' W	56° 13.240' N
	1.899m		1.819m		2.070m	
NNG-A08	2° 17.257' W	56° 13.672' N	2° 17.282' W	56° 13.665' N	2° 17.257' W	56° 13.656' N
	0.370m		0.369m		0.369m	
NNG-D22	2° 18.127' W	56° 18.135' N	2° 18.152' W	56° 18.127' N	2° 18.127' W	56° 18.119' N
	0.569m		0.200m		0.354m	

3 Ongoing Operations

3.1 Boulder/Debris Clearance Operations

Relocation of rocks/boulders in areas of export cable infrastructure is a critical pre-construction activity to reduce significant Health and Safety risks to the construction phase. Boulders are moved a short distance from their existing position to areas where there are already rocks and boulders, and only those within a narrow corridor are selected for relocation. As works progress along the Export Cable Corridor, this Notice will present a figure showing the location of all boulders found in the survey area, and those that have been relocated, including their previous and new location. The figure for the recently completed works is presented at the end of this note (Figure 5 and Figure 6).

Table 3 Details of Boulder/debris Clearance Operations

Contractor:	Helix Robotic Solutions Ltd (Hughes Subsea Services Ltd)
Scope of operation:	Helix Robotic Solutions Ltd have been contracted to clear boulders / debris from all Construction Zones. Construction Zones include; <ul style="list-style-type: none"> Subsea Template (SST) position at each Wind Turbine Generator (WTG) / Offshore Substation (OSS) location Jack-Up Vessel (JUV) footprint at each WTG location Inter-Array Cable (IAC) & Inter-connector Cable Routes Export Cable Route (ECR) KP 5 – KP 37
Area of operation:	Offshore Windfarm (OWF) / Export Cable Route (ECR)
Dates of operation:	January 2020 – January 2021
Vessels supporting operation:	FS Kristiansand World Peridot

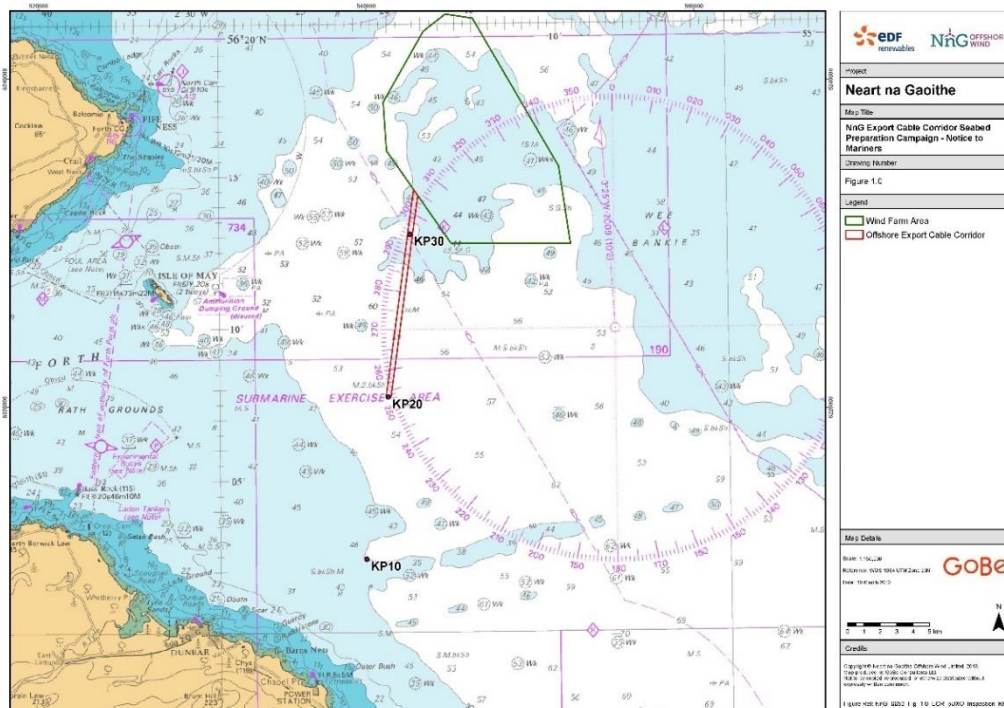


Figure 2 Area of boulder clearance operations; Wind Farm Area and Export Cable Corridor

Table 4 Coordinates for Boulder Clearance Operations

DESCRIPTION	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
Offshore Wind Farm (OWF) Figure 2	002° 09.898' W	56° 15.271' N
	002° 13.998' W	56° 12.752' N
	002° 19.628' W	56° 15.479' N
	002° 20.232' W	56° 17.430' N
	002° 16.518' W	56° 20.312' N
	002° 09.255' W	56° 12.721' N
	002° 16.293' W	56° 12.766' N
	002° 20.055' W	56° 15.827' N
	002° 17.826' W	56° 19.752' N
	002° 14.910' W	56° 20.171' N
Export Cable Route (ECR) KP 20 – Wind Farm Boundary Figure 2	002° 19.934' W	56° 07.723' N
	002° 20.218' W	56° 07.750' N
	002° 18.479' W	56° 14.546' N
	002° 18.237' W	56° 14.349' N

Table 5 Boulder Clearance Vessel; FS Kristiansand

Vessel name:	FS Kristiansand
Vessel type and Dimensions:	Platform Supply Vessel (PSV) LOA: 73.4m, Beam: 16.63m, Draught: 5.0m
Vessel role:	Boulder Clearance Operations
Location of operations:	Export Cable Route (ECR): KP 31.000 – 32.000 KP 32.000 – 33.000
Call sign:	MAAS7
Maritime Mobile Service Identity:	232002896
On board contact:	NnG Client Representative Kristiansand-Rep@nngoffshorewind.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480

Vessel name:	FS Kristiansand
	

Table 6 Boulder Clearance Vessel; World Peridot

Vessel name:	World Peridot
Vessel type and Dimensions:	Platform Supply Vessel (PSV) LOA: 80.03m, Beam: 19.13m, Draught: 5.2m
Vessel role:	Boulder Clearance Operations
Location of operations:	Inter-Array Cable Corridors; NNG-C19 – NNG-OSS-N NNG-OSS-N – NNG-E16 NNG-E16 – NNG-F17
Call sign:	D5TS3
Maritime Mobile Service Identity:	636019266
On board contact:	NnG Client Representative World.Peridot-Rep@nngoffshorewind.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480

Vessel name:	World Peridot
	

3.2 Drilling and Casing Installation

Table 7 Details of Drilling and Casing Installation Operations

Contractor:	Saipem Ltd
Scope of operation:	Saipem Ltd has been contracted by Neart na Gaoithe (NnG) to undertake the Detailed Design under an EPCI Scope of Work. During this campaign, Saipem Ltd will drill out x3 rock-sockets and install x3 casings at each of the x54 Wind Turbine Generator (WTG) and x2 Offshore Substation (OSS) locations.
Area of operation:	OWF
Dates of operation:	10/08/20 – March 2021
Vessels supporting operation:	Saipem 7000 Sea Gull

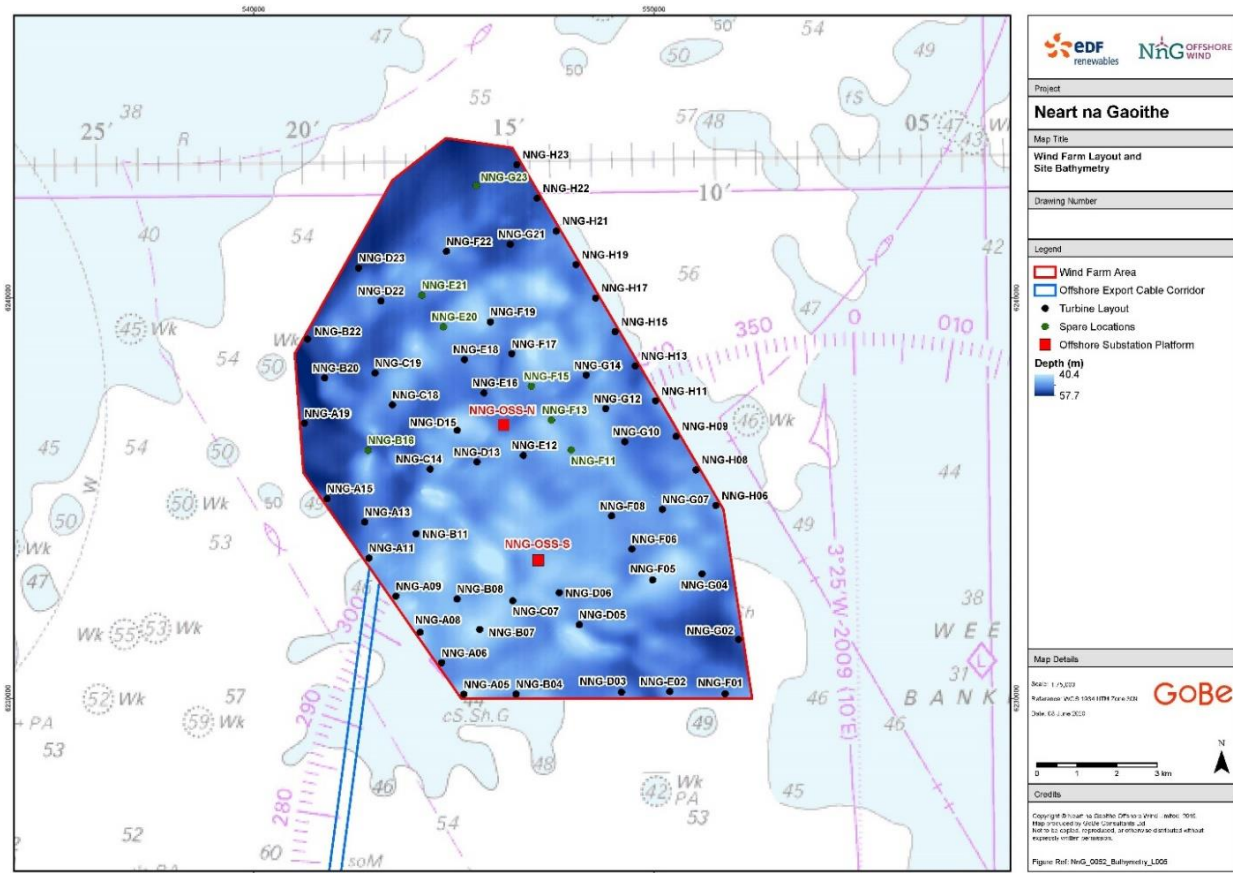


Figure 3 Location of NnG Turbine Locations within the Wind Farm Area

Table 8 Coordinates of NnG Turbine Locations and anticipated locations of work (green highlight) – complete locations are shaded (grey)

TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-A13	002° 18.580' W	56° 15.153' N	NNG-F22	002° 16.536' W	56° 18.785' N
NNG-A11	002° 18.489' W	56° 14.668' N	NNG-F19	002° 15.487' W	56° 17.828' N
NNG-A09	002° 17.845' W	56° 14.153' N	NNG-F17	002° 14.978' W	56° 17.394' N
NNG-A08	002° 17.267' W	56° 13.665' N	NNG-F08	002° 12.603' W	56° 15.198' N
NNG-A06	002° 16.755' W	56° 13.248' N	NNG-F06	002° 12.129' W	56° 14.751' N
NNG-A05	002° 16.231' W	56° 12.822' N	NNG-F05	002° 11.632' W	56° 14.330' N
NNG-B22	002° 19.921' W	56° 17.623' N	NNG-G21	002° 14.988' W	56° 18.873' N
NNG-B20	002° 19.521' W	56° 17.097' N	NNG-G14	002° 13.181' W	56° 17.095' N
NNG-B11	002° 17.341' W	56° 14.989' N	NNG-G12	002° 12.715' W	56° 16.640' N
NNG-B08	002° 16.365' W	56° 14.109' N	NNG-G10	002° 12.270' W	56° 16.197' N
NNG-B07	002° 15.822' W	56° 13.695' N	NNG-G07	002° 11.379' W	56° 15.279' N
NNG-B04	002° 14.964' W	56° 12.817' N	NNG-G04	002° 10.435' W	56° 14.405' N

TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	TURBINE ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-C19	002° 18.293' W	56° 17.155' N	NNG-G02	002° 09.572' W	56° 13.520' N
NNG-C18	002° 17.882' W	56° 16.725' N	NNG-H23	002° 14.806' W	56° 19.943' N
NNG-C14	002° 16.984' W	56° 15.858' N	NNG-H22	002° 14.322' W	56° 19.488' N
NNG-C07	002° 15.017' W	56° 14.076' N	NNG-H21	002° 13.865' W	56° 19.043' N
NNG-D23	002° 18.666' W	56° 18.572' N	NNG-H19	002° 13.397' W	56° 18.588' N
NNG-D22	002° 18.135' W	56° 18.127' N	NNG-H17	002° 12.932' W	56° 18.134' N
NNG-D15	002° 16.321' W	56° 16.376' N	NNG-H15	002° 12.466' W	56° 17.677' N
NNG-D13	002° 15.848' W	56° 15.946' N	NNG-H13	002° 11.997' W	56° 17.214' N
NNG-D06	002° 13.894' W	56° 14.179' N	NNG-A19	002° 20.015' W	56° 16.490' N
NNG-D05	002° 13.417' W	56° 13.744' N	NNG-A15	002° 19.484' W	56° 15.474' N
NNG-D03	002° 12.421' W	56° 12.828' N	NNG-F01	002° 09.915' W	56° 12.0790' N
NNG-E18	002° 16.122' W	56° 17.324' N	NNG-H11	002° 11.513' W	56° 16.740' N
NNG-E16	002° 15.658' W	56° 16.874' N	NNG-H09	002° 11.027' W	56° 16.263' N
NNG-E12	002° 14.720' W	56° 16.029' N	NNG-H08	002° 10.555' W	56° 15.808' N
NNG-E02	002° 11.251' W	56° 12.829' N	NNG-H06	002° 10.079' W	56° 15.324' N

Table 9 Coordinates of NnG Offshore Substation Platform (OSP) Locations and first anticipated locations of work (green highlight)

OSP ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)	OSP ID	LONGITUDE (DD.MM.MMM)	LATITUDE (DD.MM.MMM)
NNG-OSS-S	002° 14.395' W	56° 14.615' N	NNG-OSS-N	002° 15.193' W	56° 16.446' N

Table 10 Casing Installation Vessel; Saipem 7000

Vessel name:	Saipem 7000
Vessel type and Dimensions:	Heavy Lift Vessel LOA: 175.0m, Beam: 87.0m, Draught: 27.5m (Operating)
Vessel role:	Drilling and Casing Installation.
Location of operations:	NNG-G10 NNG-F08 NNG-A05


Call sign:	C6NO
Maritime Mobile Service Identity:	309461000
On board contact:	NnG Client Representative S7000-Rep@nngoffshorewind.com
Onshore representative:	Mick Hoyle Mick.hoyle@nngoffshorewind.com +44(0)7881102695
	

Table 11 Casing Supply Vessel; Sea Gull

Vessel name:	Sea Gull
Vessel type and Dimensions:	Platform Supply Vessel (PSV) LOA: 88.8m, Beam: 20.0m, Draught: 6.9m
Vessel role:	Transportation of casings from Marshalling Port (Leith) to S7000
Location of operations:	Leith – NnG Offshore Wind Farm as required
Call sign:	LAGK8
Maritime Mobile Service Identity:	257504000
On board contact:	NnG Client Representative S7000-Rep@nngoffshorewind.com
Onshore representative:	Mick Hoyle Mick.hoyle@nngoffshorewind.com +44(0)7881102695

Vessel name:	Sea Gull
	

3.3 Geotechnical Site Investigation

Table 12 Details of Geotechnical Site Investigation Operations

Contractor:	Saipem Ltd
Subcontractor:	Gardline Ltd.
Scope of operation:	Gardline Ltd. will conduct a Geotechnical Site Investigation campaign, on behalf of Saipem, from Supply Vessel 'MV Ocean Vantage'. The scope includes x56 boreholes of varying termination depths, ranging from 12.0m – 47.0m below mudline (BML). All operations will be conducted within the Wind Farm Area (See Figure 4).
Area of operation:	OWF (Table 13)
Dates of operation:	01/09/2020 – November 2020
Vessels supporting operation:	Ocean Vantage

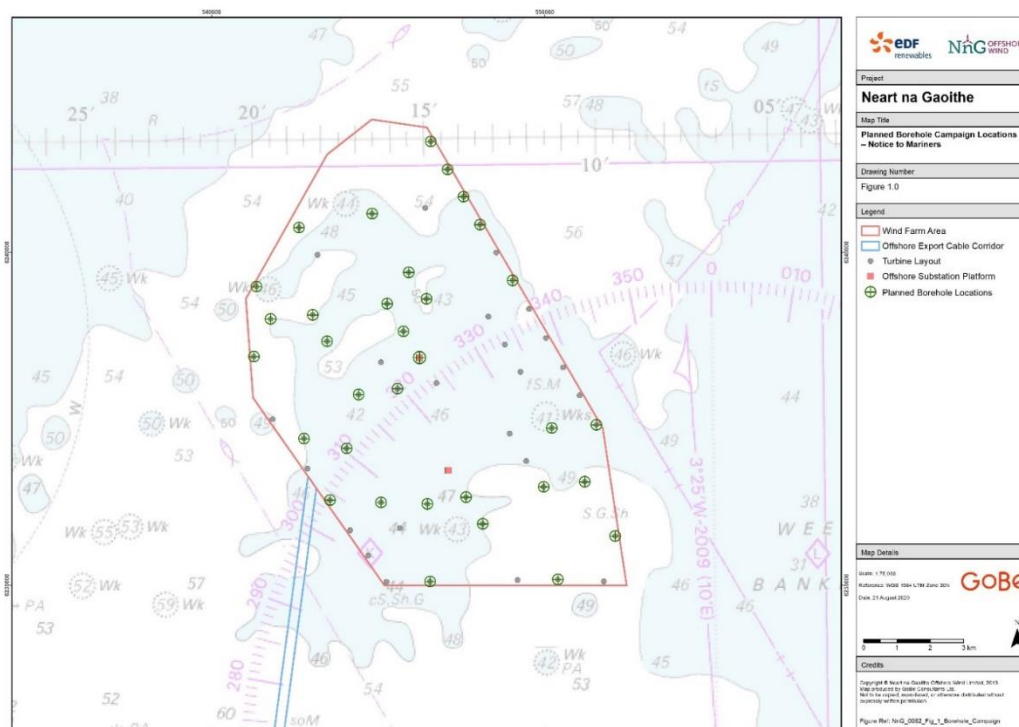


Figure 4 Locations of Saipem Boreholes

Table 13 NnG Offshore Wind Farm WTG and OSS locations; planned borehole survey locations - complete locations are shaded (grey)

Turbine/OSS ID	Longitude (DD.MM.MMM)	Latitude (DD.MM.MMM)	Turbine/OSS ID	Longitude (DD.MM.MMM)	Latitude (DD.MM.MMM)
NNG-A13	002° 18.580' W	56° 15.153' N	NNG-E16	002° 15.658' W	56° 16.874' N
NNG-A09	002° 17.845' W	56° 14.153' N	NNG-E02	002° 11.251' W	56° 12.829' N
NNG-B22	002° 19.921' W	56° 17.623' N	NNG-F22	002° 16.536' W	56° 18.785' N
NNG-B20	002° 19.521' W	56° 17.097' N	NNG-F19	002° 15.487' W	56° 17.828' N
NNG-B11	002° 17.341' W	56° 14.989' N	NNG-F17	002° 14.978' W	56° 17.394' N
NNG-B08	002° 16.365' W	56° 14.109' N	NNG-F05	002° 11.632' W	56° 14.330' N
NNG-B04	002° 14.964' W	56° 12.817' N	NNG-G07	002° 11.379' W	56° 15.279' N
NNG-C19	002° 18.293' W	56° 17.155' N	NNG-G04	002° 10.435' W	56° 14.405' N
NNG-C18	002° 17.882' W	56° 16.725' N	NNG-G02	002° 09.572' W	56° 13.520' N
NNG-C14	002° 16.984' W	56° 15.858' N	NNG-H23	002° 14.806' W	56° 19.943' N
NNG-C07	002° 15.017' W	56° 14.076' N	NNG-H22	002° 14.322' W	56° 19.488' N
NNG-D23	002° 18.666' W	56° 18.572' N	NNG-H21	002° 13.865' W	56° 19.043' N
NNG-D13	002° 15.848' W	56° 15.946' N	NNG-H19	002° 13.397' W	56° 18.588' N
NNG-D06	002° 13.894' W	56° 14.179' N	NNG-H15	002° 12.466' W	56° 17.677' N
NNG-D05	002° 13.417' W	56° 13.744' N	NNG-A19	002° 20.015' W	56° 16.490' N
NNG-E18	002° 16.122' W	56° 17.324' N	NNG-H06	002° 10.079' W	56° 15.324' N
NNG-OSS-N	002° 15.193' W	56° 16.446' N			

Note; Location NNG-OSS-N (above) has been removed from Saipem Scope of Work.

Table 14 Supply Vessel; MV Ocean Vantage

Vessel name:	Ocean Vantage
Vessel type and Dimensions:	Supply Vessel LOA: 68.0m, Beam: 16.08m, Draught: 5.2m
Vessel role:	Geotechnical drilling vessel
Location of operations:	Sequence of operations will be dependent on the available weather windows whilst MV Ocean Vantage is on site and ensuring SIMOPS between other operational vessels are avoided.
Call sign:	HP6188
Maritime Mobile Service Identity:	351149000
On board contact:	Contact name: Vessel Master Email: master@vantage.gardline.com Phone: +44(0)1493 236023
Onshore representative:	Contact name: DPA

Vessel name:	Ocean Vantage
	Email: dpacso@gardline.com ; Phone: +44(0)7887 596477
	

3.4 Guard Vessels

SFF Services has been appointed by NnGOWL to provide guard vessels during the boulder/debris clearance campaign. Apart from times of extreme weather, there will always be at least two guard vessels on site, to cover the Wind Farm Area and Export Cable Corridor. The guard vessel's primary duty is security of the construction site by informing and warning non-construction vessels of the ongoing activities and associated Safety Zones.

Two (2) of the three (3) Guard Vessels below are on-site at any given time supporting the operational vessels listed above.

Table 15 Guard Vessel; Artemis

Vessel name:	Artemis
Vessel type and Dimensions:	Guard Vessel LOA: 27.69m, Beam: 8.7m, Draught: 5.1m
Vessel role:	Guard Vessel Duties
Location of operations:	Offshore Wind Farm until 16/11/2020
Call sign:	MVIX5
Maritime Mobile Service Identity:	233975000
On board contact:	Vessel Master concordeb47@aol.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480

Vessel name:	Artemis
	

Table 16 Guard Vessel; Seagull

Vessel name:	Seagull
Vessel type and Dimensions:	Guard Vessel LOA: 30.0m, Beam: 8.0m, Draught: 4.9m
Vessel role:	Guard Vessel Duties
Location of operations:	Export Cable Route until 09/11/2020
Call sign:	MVBO2
Maritime Mobile Service Identity:	233714000
On board contact:	Vessel Master seagullbf74@gmail.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480
	

Table 17 Guard Vessel; Tranquillity S

Vessel name:	Tranquillity S
Vessel type and Dimensions:	Guard Vessel LOA: 19.0m, Beam: 7.0m, Draught: 2.63m
Vessel role:	Guard Vessel Duties
Location of operations:	Return to Export Cable Route on 09/11/2020

Vessel name:	Tranquillity S
Call sign:	MJUH9
Maritime Mobile Service Identity:	235053837
On board contact:	Vessel Master spousekeil@yahoo.com
Onshore representative:	Martin Malone Martin.malone@nngoffshorewind.com +44(0)7880439480
	

4 Planned Operations

NnGOWL will update this section of the report prior to any additional offshore operations commencing.

5 General Safety Advice

All vessels engaged in the construction activity will exhibit appropriate lights and shapes prescribed by the International Regulations for Preventing Collisions at Sea; relative to their operations. All vessels engaged in the activity will also transmit an Automatic Identification System (AIS) message. Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, when navigating the area.

Please be aware that by virtue of their mode of operation and the equipment deployed vessels will be Restricted in their Ability to Manoeuvre (RAM) as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3). Masters of vessels are therefore requested to maintain their vessels and gears at a minimum safe distance from these vessels of 500 metres when it is undertaking its work and showing the appropriate shapes and lights in accordance with COLREGs Rule 18.

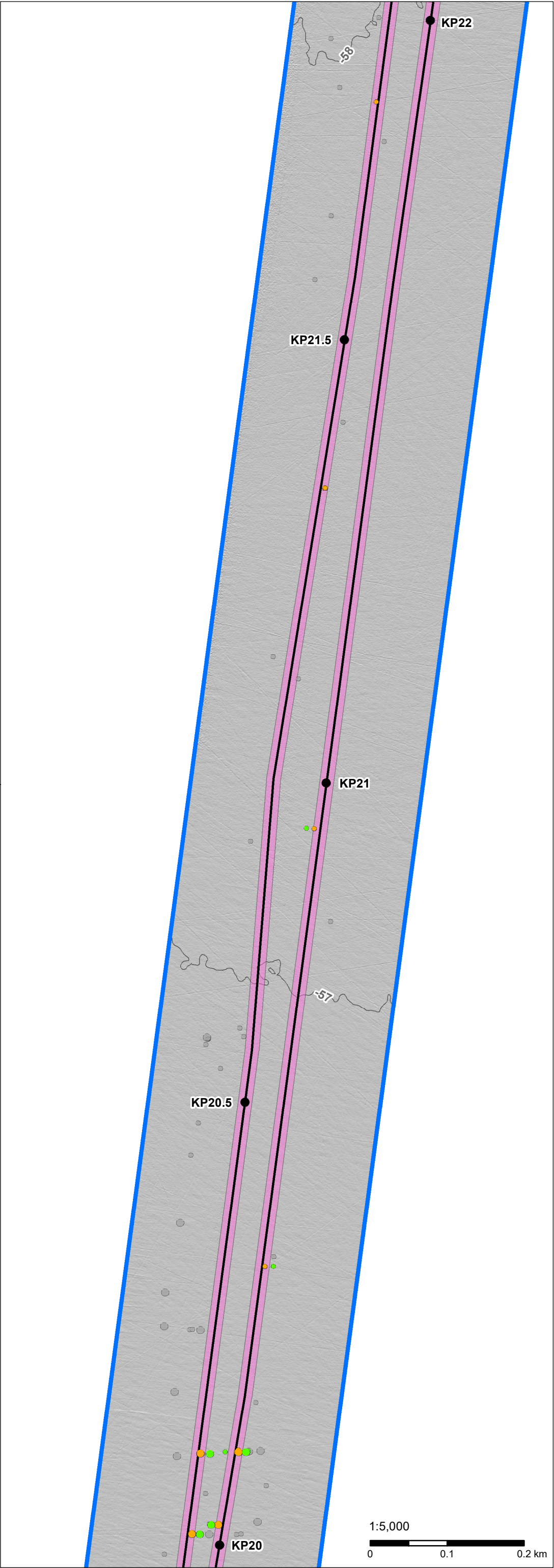
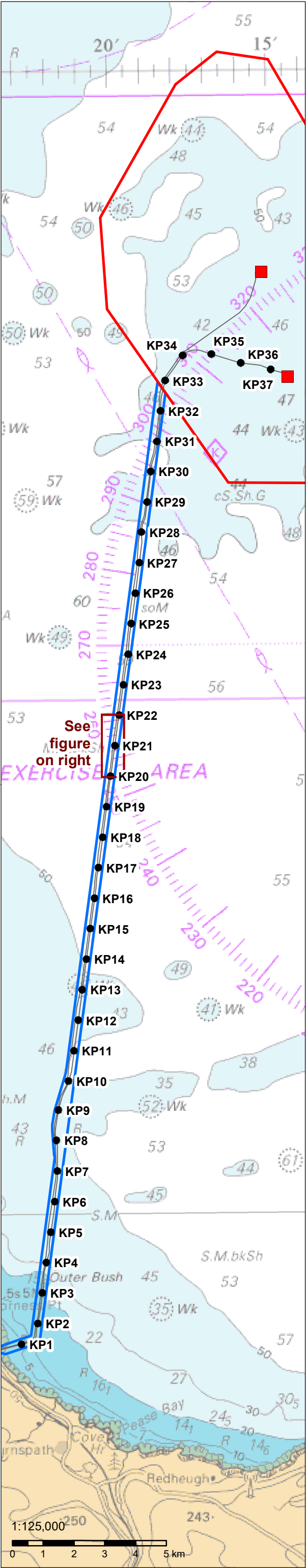
Use of Safety Zones within the Neart na Gaoithe Offshore Wind Farm Construction Area is as follows:



- Mandatory “rolling” 500 metres (m) Safety Zones will be established around each wind farm structure (turbines and Offshore Substation Platforms (OSP)) and/or their foundations whilst construction works are in progress, as indicated by the presence of a construction vessel. Up to ten of these Safety Zones may be active at any given time.

The duty Guard Vessels and Marine Coordination Centre will be responsible for monitoring and policing the Safety Zones; and can be contacted directly for advice. Users are advised to keep clear of construction activities, including Safety Zones.

6 Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by the Company Fisheries Liaison Officer. For any commercial fishery queries please contact: Peter Berney, telephone: +44 (0)7391 402387 or email: NnG.FLO@naturalpower.com. For any other general queries please contact info@nngoffshorewind.com.





Project

Neart na Gaoithe

Map Title

NnG Seabed Preparation Campaign
– Export Cable Route
KP20 - KP22

Drawing Number

Legend

Wind Farm Area

Offshore Substation Platforms

NnG Licenced Area

Offshore Export Cable

Cable Corridor (18m width)

Original Boulder Locations

Original Boulder Location (≥1m)

New Boulder Locations

New Boulder Locations (≥1m)

Boulders not Relocated

Boulders not Relocated (≥1m)

Map Details

Reference: WGS 1984 UTM Zone 30N

Date: 08 October 2020

GoBe

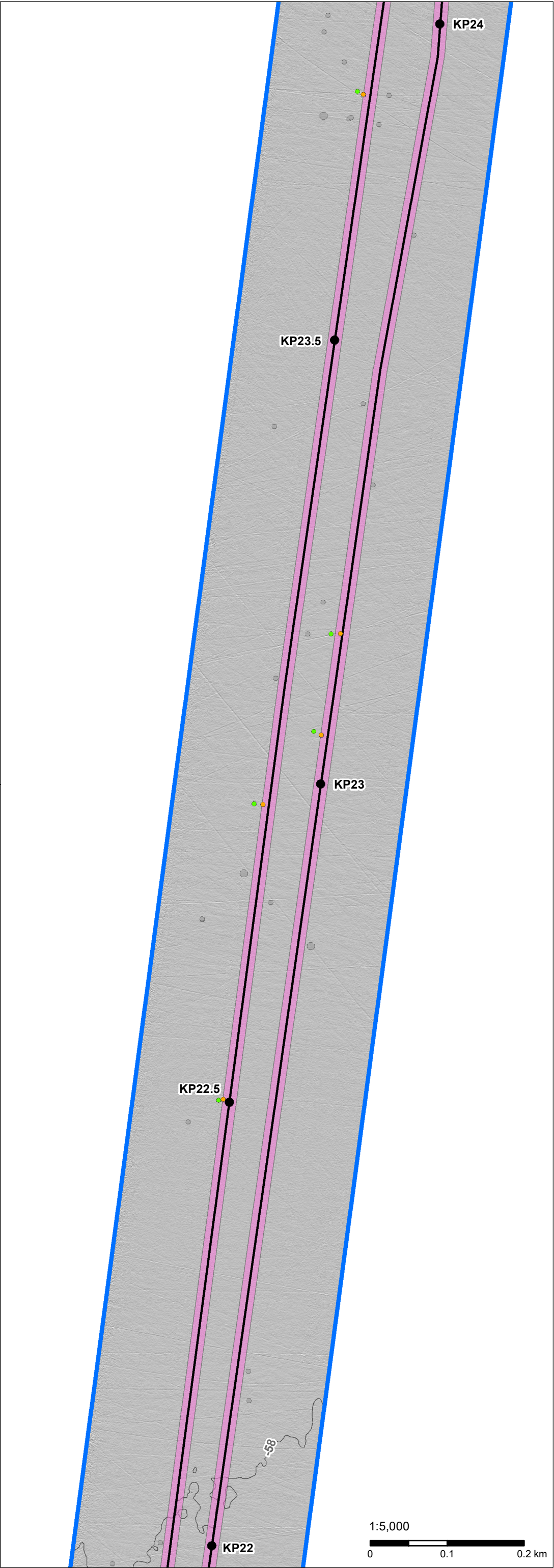
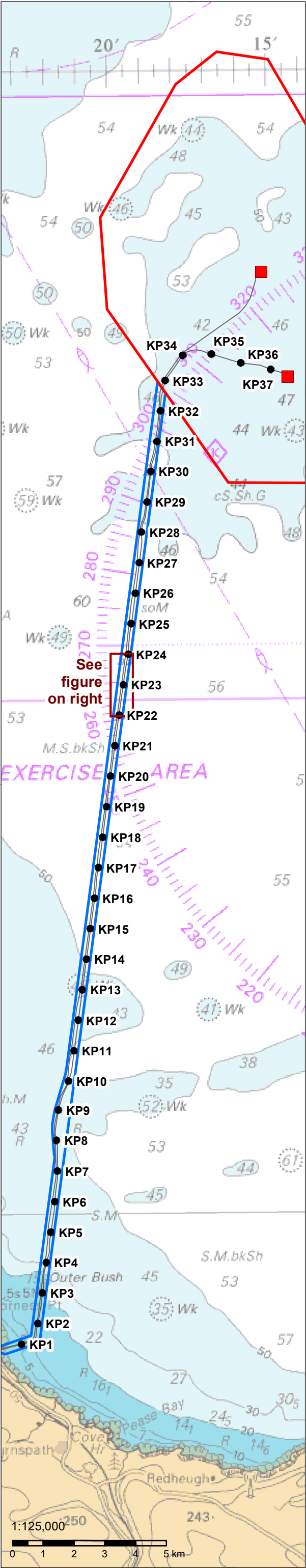
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Figure Ref: NnG_0052_SPC_ECR_Boulders_KP18to20_v1





Project

Neart na Gaoithe

Map Title

NnG Seabed Preparation Campaign – Export Cable Route
KP22 - KP24

Drawing Number

Legend

Wind Farm Area

Offshore Substation Platforms

NnG Licenced Area

Offshore Export Cable

Cable Corridor (18m width)

Original Boulder Locations

Original Boulder Location (≥1m)

New Boulder Locations

New Boulder Locations (≥1m)

Boulders not Relocated

Boulders not Relocated (≥1m)

Map Details

Reference: WGS 1984 UTM Zone 30N

Date: 08 October 2020

GoBe

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