

MORAY EAST WEEKLY NOTICE OF OPERATIONS	Issue Date	16/11/2020
	Ref: 8460001-PC0010-MWE-REP-0089	Rev: 01

Work Planned for the Period 16.11.2020 to 22.11.2020 (Rev1)

Construction work for Moray East Offshore Wind Farm commenced on the 18th May 2019.

The key aim of the Weekly Notice of Operations is to give a global view of activities and vessels involved. Questions regarding the operations will be welcome preferably well in advance of each construction activity.

Moray East is developing the Moray East Offshore Wind Farm in the Outer Moray Firth on the south eastern area of the Smith Bank located to the north of the Aberdeenshire and Moray coast. The development will consist of 100 offshore wind turbines (WTGs) (with a total capacity of approximately 950 MW) and three Offshore Substation Platforms (OSPs). Water depths in the Moray East site range from approximately 38 m below LAT to 54 m below LAT. The generated power will be transmitted to the grid via three subsea export cable circuits to the landfall location at Inverboyndie bay on the Aberdeenshire coast. The onshore export cables continue underground to the Moray East substation currently under construction near New Deer. The Moray East offshore development boundary is shown in black on Figure 1 below. Details of location of work activities within this area will be provided as work progresses.



Figure 1 - Moray East Offshore Development Boundary

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It is currently anticipated that weather permitting offshore construction works will be carried out year-round and on a continuous basis (i.e. 24 hour working, seven days a week) unless notified otherwise.

Moray East's Marine Coordination Centre in Fraserburgh is manned 24 hours, 7 days per week.

The current construction works are as follows:

- Guard vessel duties (detailed in this notice);
- Jacket Installation and Grouting;
- Soil plug removal operations;
- Export Cable and inter array cable installation works

1 Contact Details for Marine Coordination

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.

Telephone Number (Day Operations)	+44 (0) 778 706 5714
Emergency Contact (24/7)	+44 (0) 1346 511 838
Marine Coordinator Email	MarineCoordination.MORAYEAST@Morayeast.com
Address	Dalrymple Hall, Dalrymple St, Fraserburgh, AB43 9BD

2 Moray East site 1 Demarcation Buoyage

2.1 Moray East Construction Markers

Moray East has completed the deployment of nine construction marker buoys around the Moray East site (Figure 2). The marker buoys will remain in place until after construction of the Moray East Offshore Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the Table 1 below.

Table 1 – Marker buoy locations

Name	WGS84		WGS84 UTM Zone 30N	
	Latitude (dms)	Longitude (dms)	Easting (m)	Northing (m)
Buoy 1 - North Cardinal Buoy, Pillar shaped with a north cardinal shaped top mark, exhibiting a Quick (Q) White (W) light character and AIS.	58° 18' 6.600" N	2° 41' 4.800" W	518481.96	6462358.27
Buoy 2 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 16' 48.300" N	2° 37' 55.380" W	521579.08	6459952.33
Buoy 3 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 15' 8.460" N	2° 35' 57.300" W	523521.05	6456875.58

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Name	WGS84		WGS84 UTM Zone 30N	
	Latitude (dms)	Longitude (dms)	Easting (m)	Northing (m)
Buoy 4 - East Cardinal Buoy, Pillar shaped with an east cardinal shaped top mark, exhibiting a Very (V) Q (3) 5 second (s) W light character	58° 10' 44.10" N	2° 32' 45.85" W	526697.39	6448719.65
Buoy 5 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 7' 49.680" N	2° 35' 20.640" W	524201.44	6443309.27
Buoy 6 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 6' 43.980" N	2° 38' 19.860" W	521280.40	6441260.65
Buoy 7 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 4' 57.240" N	2° 47' 9.360" W	512624.16	6437922.64
Buoy 8 – South Cardinal, Pillar shaped with a south cardinal shaped top mark, exhibiting a V Q (6) + L Fl 10s W light character and AIS.	58° 4' 1.140" N	2° 52' 6.660" W	507757.35	6436175.21
Buoy 9 - Special Mark Buoy, Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 8' 37.080" N	2° 50' 37.080" W	509205.67	6444712.15
Wave rider Buoy Spherical Yellow buoy FL(5) Y 20s, Light sector Y360	58° 13' 55.600" N	2° 44' 59.700" W	514686.43	6454579.53

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Figure 2 - Layout of demarcation buoyage

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3. Soil plug removal, Jacket installation, Boulder picking and grouting.

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) has commenced soil plug removal, pile cleaning and jacket installation on all of the pre piled areas (shown in Figure 8) using Normand Energy, Atlantic Tonjer and Seajacks Scylla and works will continue until further notice. Once the Jackets have been installed Boa Sub C (Figure 10) will be utilised for grouting operations on the newly installed jackets. Planned construction activities are shown in Figure 12.

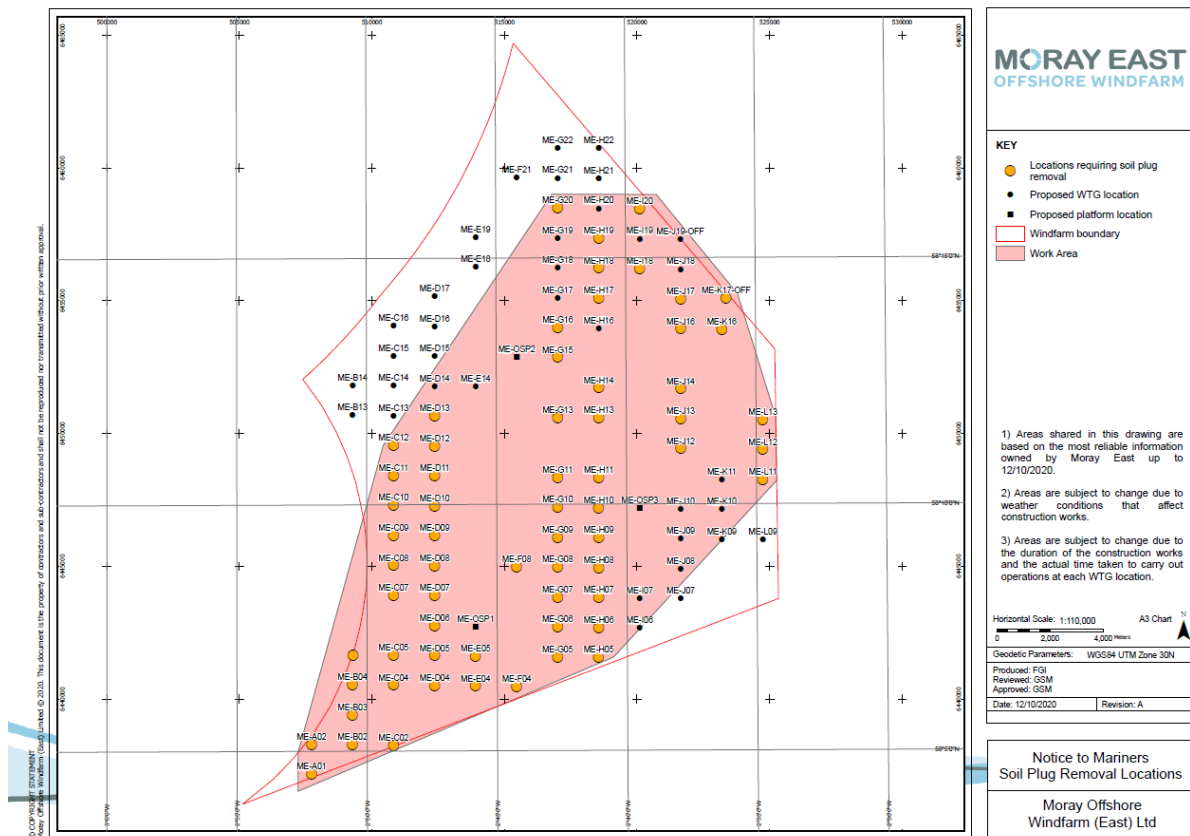


Figure 3 – Remaining soil plug removal locations

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Normand Energy (Soil plug removal)	
General Description and Dimensions:	LOA:130 m, Beam: 28 m, Draught 5.8m
Call Sign:	LAJL6
MMSI:	258728000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	bridge@energy.solstad.com
Onshore Representative:	Edward Maycock



Figure 4. Soil Plug Removal Vessel

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Atlantic Tonjer (Boulder Picking)	
General Description and Dimensions:	LOA: 80.77 m, Beam: 18 m, Draught 4.4m
Call Sign:	HOBO
MMSI:	374032000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	tonjer@atlanticmarineoffshore.com
Onshore Representative:	Ed Maycock



Figure 5 Boulder Picking Vessel

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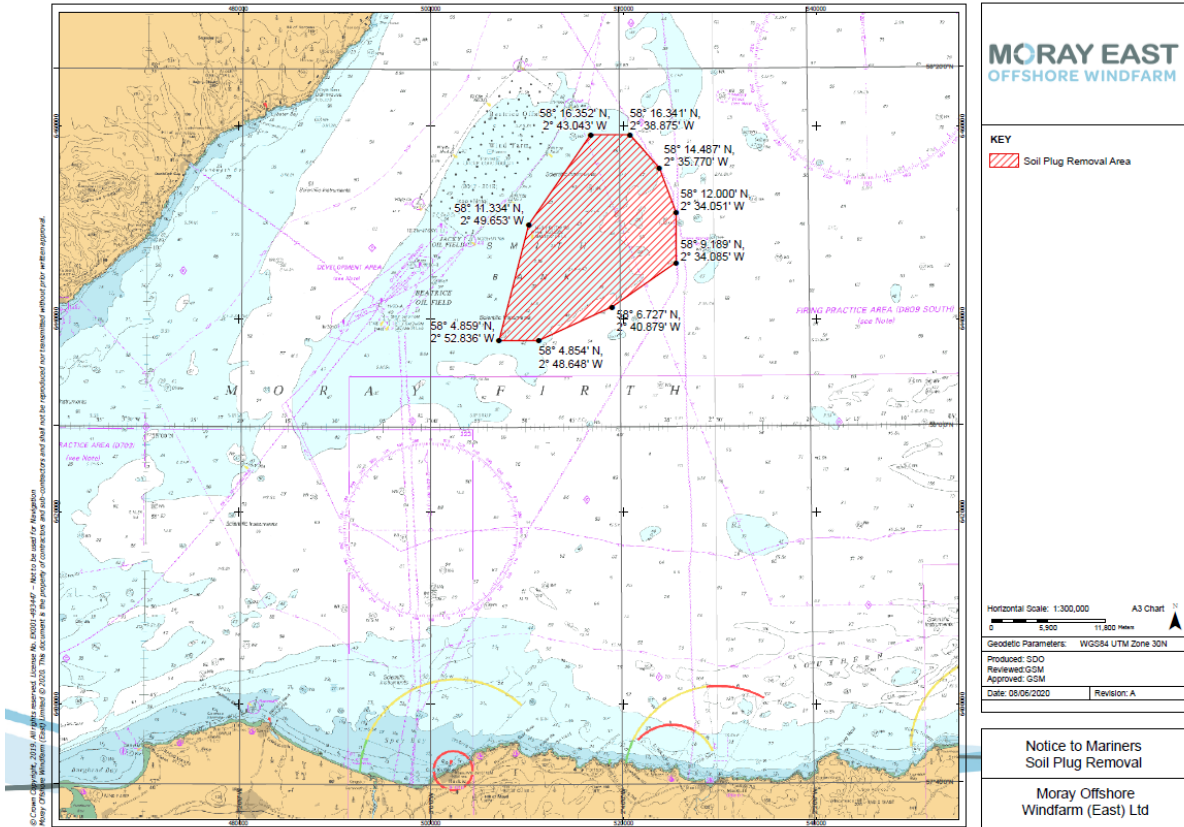


Figure 6. Moray East site 1 (Offshore Windfarm Area)

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Figure 7. Photos of the Jackets to be Installed

Foundation Locations

Foundation locations for jacket installation operations are shown in Table 3 below. Locations where jacket installation has been completed are highlighted in Figure 08 – Turbine location map.

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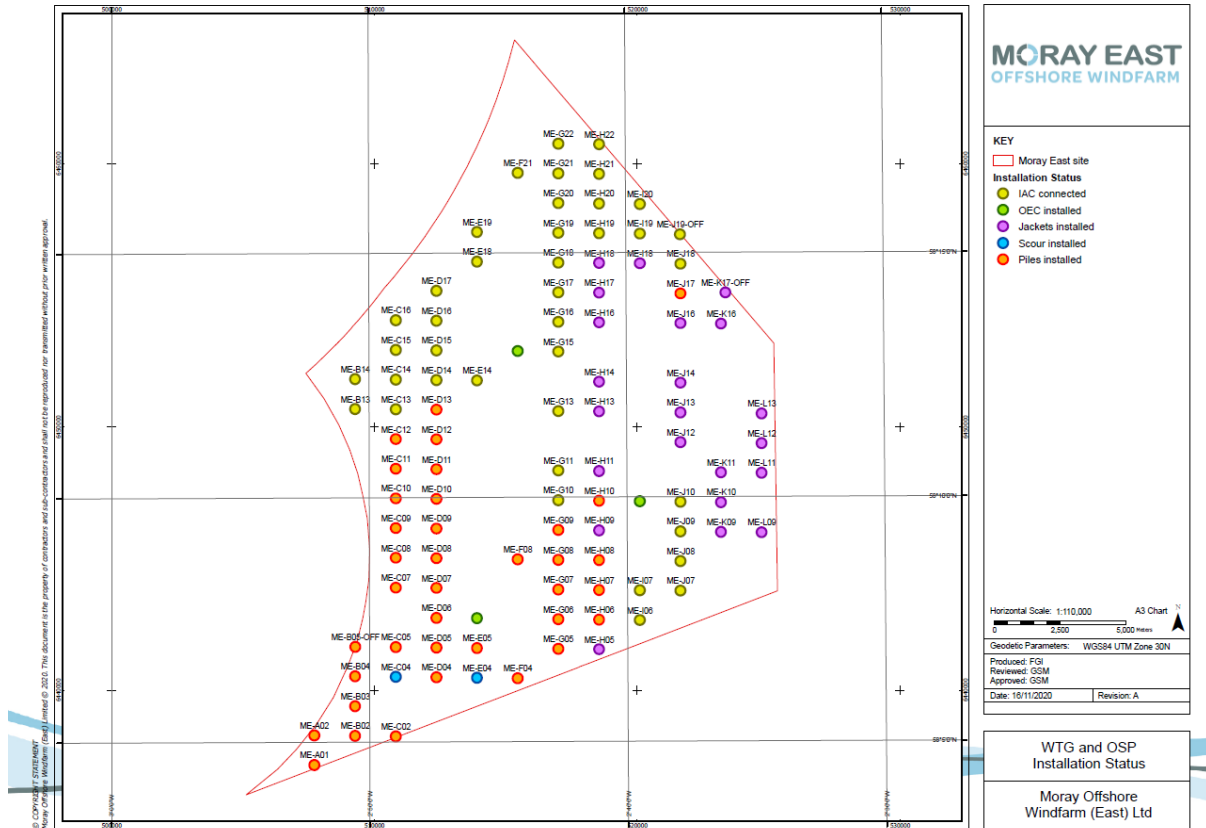


Figure 8 Turbine location and Installation Status

Table 3 – WTG locations and Installation Status

Turbine ID	Latitude (DD MM.mmm)	Longitude (DD MM.mmm)	Piling Complete	Jacket Installed
ME-A01	58° 4.550' N	2° 52.147' W	19/08/2019	
ME-A02	58° 5.158' N	2° 52.144' W	13/10/2019	
ME-B02	58° 5.147' N	2° 50.570' W	02/11/2019	
ME-B03	58° 5.755' N	2° 50.567' W	20/11/2019	
ME-B04	58° 6.364' N	2° 50.564' W	01/09/2019	
ME-B05-OFF	58° 6.967' N	2° 50.544' W	14/10/2019	
ME-B13	58° 11.838' N	2° 50.540' W	01/11/2019	16/07/2020
ME-B14	58° 12.446' N	2° 50.538' W	09/07/2019	24/07/2020
ME-C05	58° 6.961' N	2° 48.986' W	30/08/2019	
ME-C07	58° 8.177' N	2° 48.980' W	17/10/2019	
ME-C08	58° 8.785' N	2° 48.977' W	22/01/2020	
ME-C09	58° 9.394' N	2° 48.973' W	17/10/2019	

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Turbine ID	Latitude (DD MM.mmm)	Longitude (DD MM.mmm)	Piling Complete	Jacket Installed
ME-C10	58° 10.002' N	2° 48.970' W	29/10/2019	
ME-C11	58° 10.610' N	2° 48.967' W	30/10/2019	
ME-C12	58° 11.218' N	2° 48.964' W	31/10/2019	
ME-C13	58° 11.826' N	2° 48.961' W	20/01/2019	26/08/2020
ME-C14	58° 12.435' N	2° 48.958' W	08/07/2019	11/07/2020
ME-C15	58° 13.043' N	2° 48.955' W	10/07/2019	03/09/2020
ME-C16	58° 13.651' N	2° 48.951' W	12/07/2019	03/09/2020
ME-D04	58° 6.341' N	2° 47.414' W	26/01/2020	
ME-D05	58° 6.949' N	2° 47.410' W	16/12/2019	
ME-D07	58° 8.166' N	2° 47.403' W	22/01/2020	12/11/2020
ME-D08	58° 8.774' N	2° 47.399' W	07/12/2019	
ME-D09	58° 9.382' N	2° 47.396' W	07/12/2019	
ME-D10	58° 9.990' N	2° 47.392' W	04/12/2019	
ME-D11	58° 10.598' N	2° 47.389' W	24/01/2020	
ME-D12	58° 11.207' N	2° 47.385' W	31/01/2020	11/11/2020
ME-D13	58° 11.815' N	2° 47.381' W	06/12/2019	12/11/2020
ME-D14	58° 12.423' N	2° 47.378' W	02/02/2020	12/07/2020
ME-D15	58° 13.031' N	2° 47.374' W	13/11/2019	09/07/2020
ME-D16	58° 13.639' N	2° 47.371' W	11/07/2019	22/08/2020
ME-D17	58° 14.248' N	2° 47.367' W	13/07/2019	24/08/2020
ME-E04	58° 6.329' N	2° 45.838' W	17/11/2019	
ME-E05	58° 6.937' N	2° 45.834' W	18/11/2019	
ME-E19	58° 15.452' N	2° 45.778' W	14/07/2019	20/09/2020
ME-F04	58° 6.317' N	2° 44.263' W	28/01/2020	
ME-F21	58° 16.656' N	2° 44.187' W	16/07/2019	17/08/2020
ME-G05	58° 6.913' N	2° 42.683' W	01/12/2019	
ME-G06	58° 7.521' N	2° 42.678' W	12/01/2020	
ME-G07	58° 8.129' N	2° 42.673' W	24/08/2019	
ME-G09	58° 9.345' N	2° 42.663' W	07/08/2019	
ME-G10	58° 9.954' N	2° 42.658' W	18/08/2019	14/10/2020
ME-G11	58° 10.562' N	2° 42.653' W	05/01/2020	14/10/2020
ME-G13	58° 11.778' N	2° 42.643' W	05/07/2019	10/10/2020
ME-G15	58° 12.995' N	2° 42.633' W	27/06/2019	11/10/2020
ME-G16	58° 13.603' N	2° 42.629' W	24/06/2019	01/10/2020
ME-G17	58° 14.211' N	2° 42.624' W	17/06/2019	18/07/2020
ME-G18	58° 14.819' N	2° 42.619' W	16/06/2019	29/08/2020
ME-G19	58° 15.428' N	2° 42.614' W	09/06/2019	25/09/2020
ME-G20	58° 16.036' N	2° 42.609' W	13/02/2020	28/09/2020

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ME-G21	58° 16.644' N	2° 42.604' W	22/07/2019	21/07/2020
ME-G22	58° 17.252' N	2° 42.599' W	17/07/2019	18/08/2020
ME-H05	58° 6.900' N	2° 41.107' W	30/11/2019	26/10/2020
ME-H06	58° 7.508' N	2° 41.102' W	25/12/2019	14/11/2020
ME-H07	58° 8.116' N	2° 41.096' W	24/12/2019	14/11/2020
ME-H08	58° 8.724' N	2° 41.091' W	18/12/2019	
ME-H09	58° 9.333' N	2° 41.086' W	05/08/2019	08/11/2020
ME-H10	58° 9.941' N	2° 41.080' W	31/12/2019	10/11/2020
ME-H13	58° 11.765' N	2° 41.064' W	04/07/2019	17/10/2020
ME-H14	58° 12.374' N	2° 41.059' W	28/06/2019	23/10/2020
ME-H16	58° 13.590' N	2° 41.048' W	23/06/2019	19/08/2020
ME-H17	58° 14.198' N	2° 41.042' W	19/06/2019	30/10/2020
ME-H18	58° 14.806' N	2° 41.037' W	08/08/2019	04/11/2020
ME-H19	58° 15.415' N	2° 41.032' W	08/06/2019	08/10/2020
ME-H20	58° 16.023' N	2° 41.026' W	24/07/2019	05/09/2020
ME-H21	58° 16.631' N	2° 41.021' W	21/07/2019	10/09/2020
ME-H22	58° 17.239' N	2° 41.015' W	18/07/2019	22/09/2020
ME-I06	58° 7.495' N	2° 39.526' W	23/10/2019	17/09/2020
ME-I07	58° 8.103' N	2° 39.520' W	26/12/2019	20/08/2020
ME-I19	58° 15.401' N	2° 39.450' W	05/06/2019	01/10/2020
ME-I20	58° 16.010' N	2° 39.444' W	07/06/2019	09/10/2020
ME-J07	58° 8.090' N	2° 37.943' W	23/08/2019	12/08/2020
ME-J08	58° 8.698' N	2° 37.937' W	22/08/2019	30/07/2020
ME-J09	58° 9.306' N	2° 37.930' W	05/02/2020	04/08/2020
ME-J10	58° 9.914' N	2° 37.924' W	04/08/2019	29/07/2020
ME-J12	58° 11.131' N	2° 37.912' W	06/02/2020	28/10/2020
ME-J13	58° 11.739' N	2° 37.905' W	02/07/2019	05/11/2020
ME-J14	58° 12.347' N	2° 37.899' W	30/06/2019	02/11/2020
ME-J16	58° 13.563' N	2° 37.886' W	21/06/2019	03/11/2020
ME-J17	58° 14.172' N	2° 37.880' W	02/06/2019	08/11/2020
ME-J18	58° 14.780' N	2° 37.874' W	20/06/2019	16/07/2020
ME-J19-OFF	58° 15.383' N	2° 37.887' W	27/02/2020	25/07/2020
ME-K09	58° 9.292' N	2° 36.353' W	28/12/2019	13/08/2020
ME-K10	58° 9.900' N	2° 36.346' W	29/07/2019	03/08/2020
ME-K11	58° 10.509' N	2° 36.339' W	29/07/2019	27/08/2020
ME-K16	58° 13.550' N	2° 36.306' W	31/05/2019	06/11/2020
ME-K17-OFF	58° 14.189' N	2° 36.133' W	30/05/2019	06/11/2020
ME-L09	58° 9.278' N	2° 34.775' W	27/07/2019	15/09/2020

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ME-L11	58° 10.494' N	2° 34.761' W	27/07/2019	16/10/2020
ME-L12	58° 11.103' N	2° 34.754' W	25/07/2019	25/10/2020
ME-L13	58° 11.711' N	2° 34.747' W	30/12/2019	27/10/2020
ME-E18	58° 14.844' N	2° 45.782' W	14/07/2019	19/09/2020
ME-E14	58° 12.411' N	2° 45.798' W	07/07/2019	05/07/2020
ME-I18	58° 14.793' N	2° 39.455' W	17/08/2019	30/10/2020
ME-F08	58° 8.750' N	2° 44.245' W	29/08/2019	
ME-G08	58° 8.737' N	2° 42.668' W	23/12/2019	
ME-H11	58° 10.549' N	2° 41.075' W	22/12/2019	21/10/2020
ME-C04	58° 6.353' N	2° 48.989' W	21/10/2019	
ME-C02	58° 5.136' N	2° 48.995' W	06/11/2019	
ME-D06	58° 7.557' N	2° 47.407' W	15/12/2019	
ME-OSP1	58° 7.546' N	2° 45.830' W	21/08/2019	30/08/2020
ME-OSP2	58° 13.007' N	2° 44.214' W	19/08/2019	10/08/2020
ME-OSP3	58° 9.928' N	2° 39.502' W	20/08/2019	22/07/2020

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Seajacks Scylla (Jacket Installation)	
General Description and Dimensions:	LOA:139 m, Beam: 50 m, Draught 7.8m
Call Sign:	3FSA3
MMSI:	356068000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Master.Scylla@Seajacks.com
Onshore Representative:	Ed Maycock



Figure 9. Jacket installation Vessel.

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Boa Sub C	
General Description and Dimensions:	LOA:138.5 m, Beam: 30.6 m, Draught 8.9m
Call Sign:	LAGE8
MMSI:	257342000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	captain@boasubc.boa.no
Onshore Representative:	Edward Maycock



Figure 10 Grouting Vessel

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Deep Cygnus	
General Description and Dimensions:	Support Vessel LOA: 124.4 m, Beam: 22m, Draught 5.7 m
Call Sign:	LACV8
MMSI:	257205000
On Board Contact:	Master
Offshore Manager / Party Chief:	TBC
E-mail:	master@deepcygnus.no
Onshore Representative:	Edward Maycock



Figure 11 Pile cleaning Vessel

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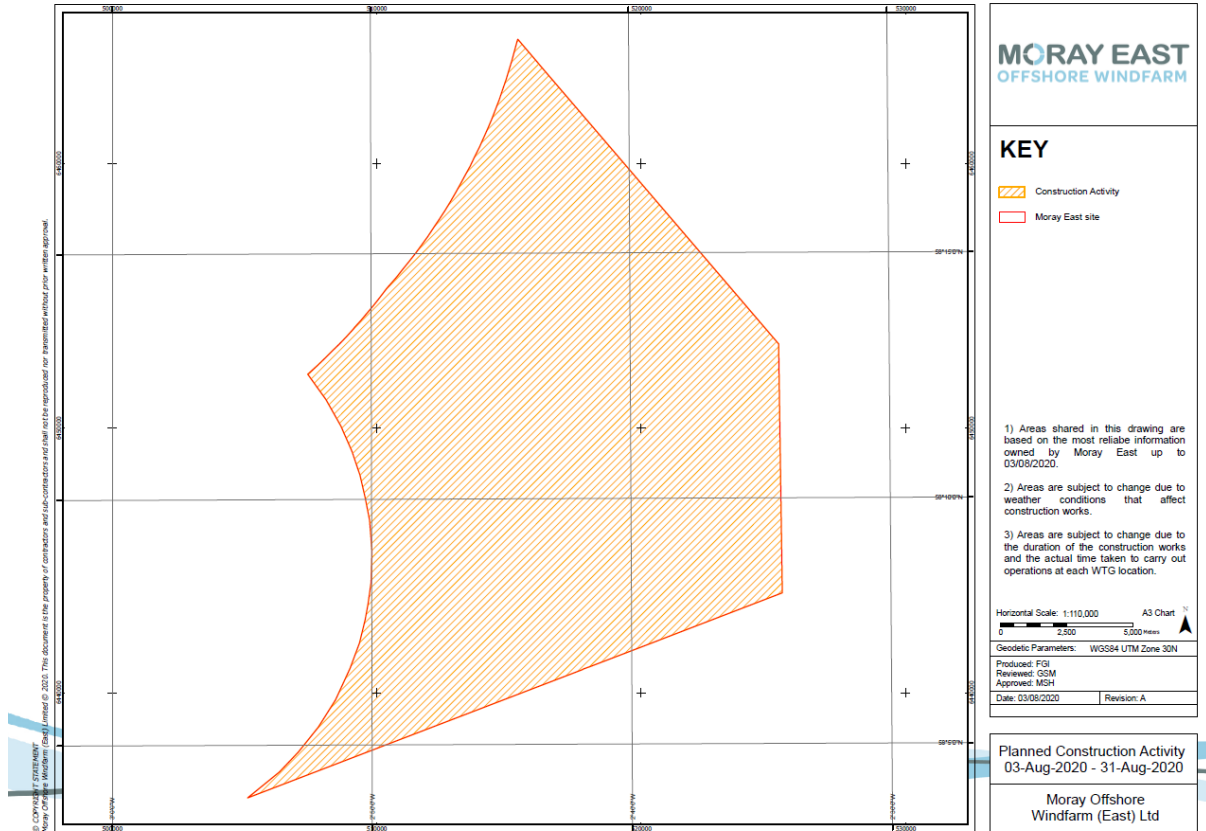


Figure 12. Construction activity planned

4. Subsea power cable (x3 export routes – wind farm to landfall) laying and trenching operations

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) continue with trenching works.

Vessel “Havila Phoenix” is currently burying OEC1, 2 and 3 subsea power cables below the seabed, via means of remotely operated trenching vehicles.

Cable trenching is expected to be ongoing until mid-November but will be followed by a separate campaign to install remedial protection over the cables on any remaining unburied/unprotected sections which will be Guarded by the Guard Vessels listed below in section 7. Details on remedial campaign(s) will be provided nearer the time of execution.

The above dates include some weather contingency, however the operations may be subject to further extension.

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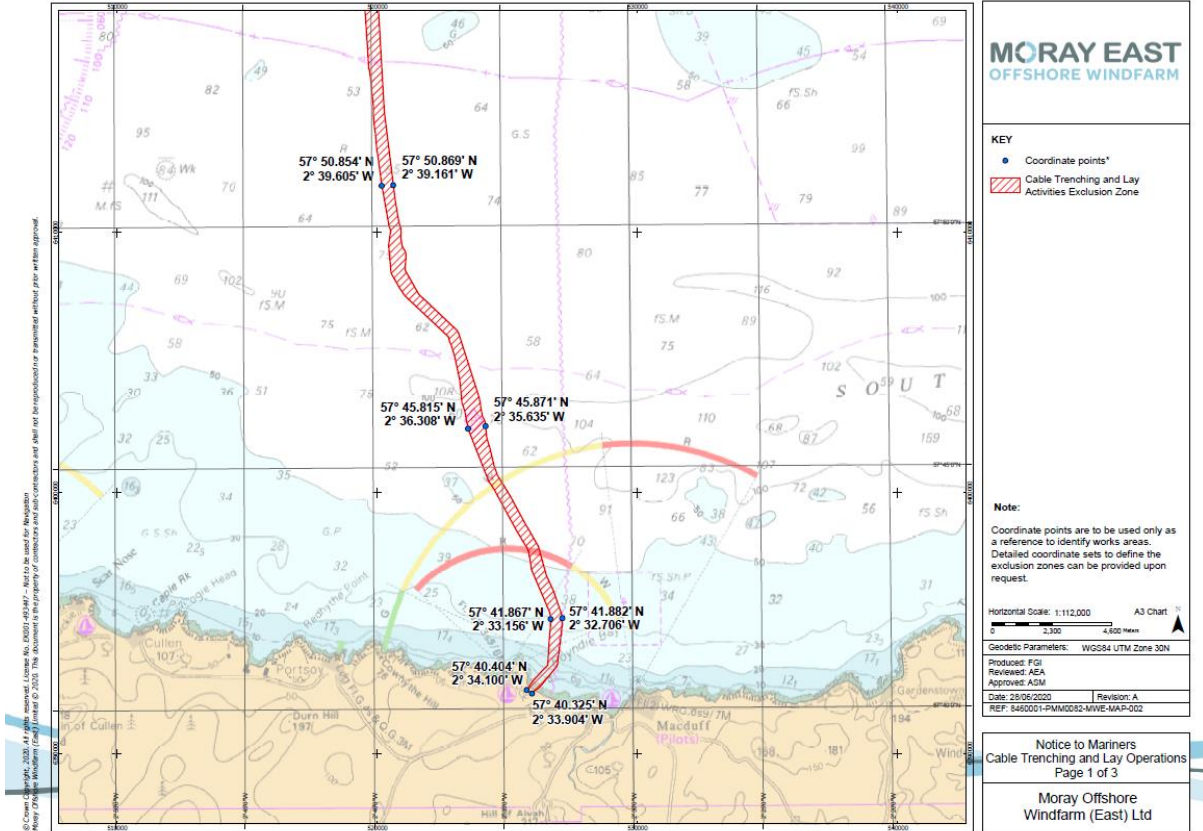


Figure 13. Trenching works area (Nearshore)

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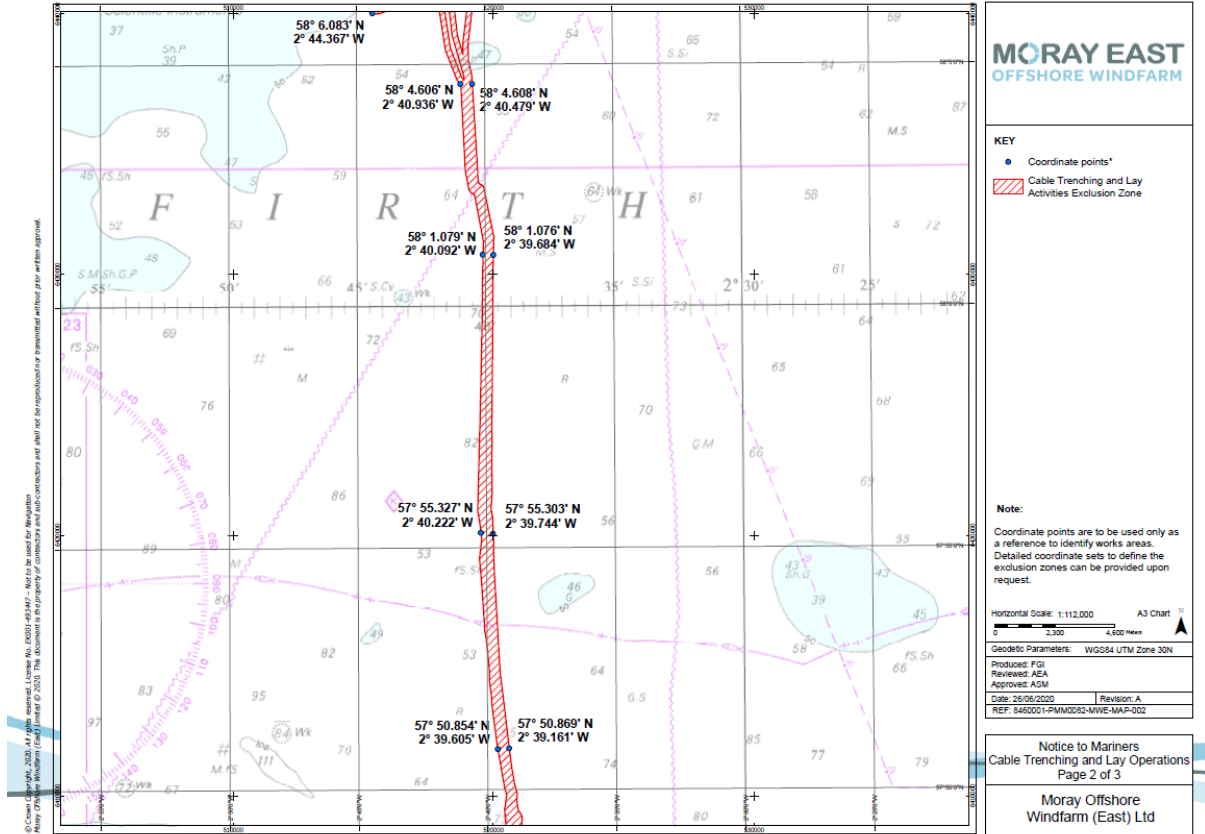


Figure 14. Trenching works area (Mid OEC)

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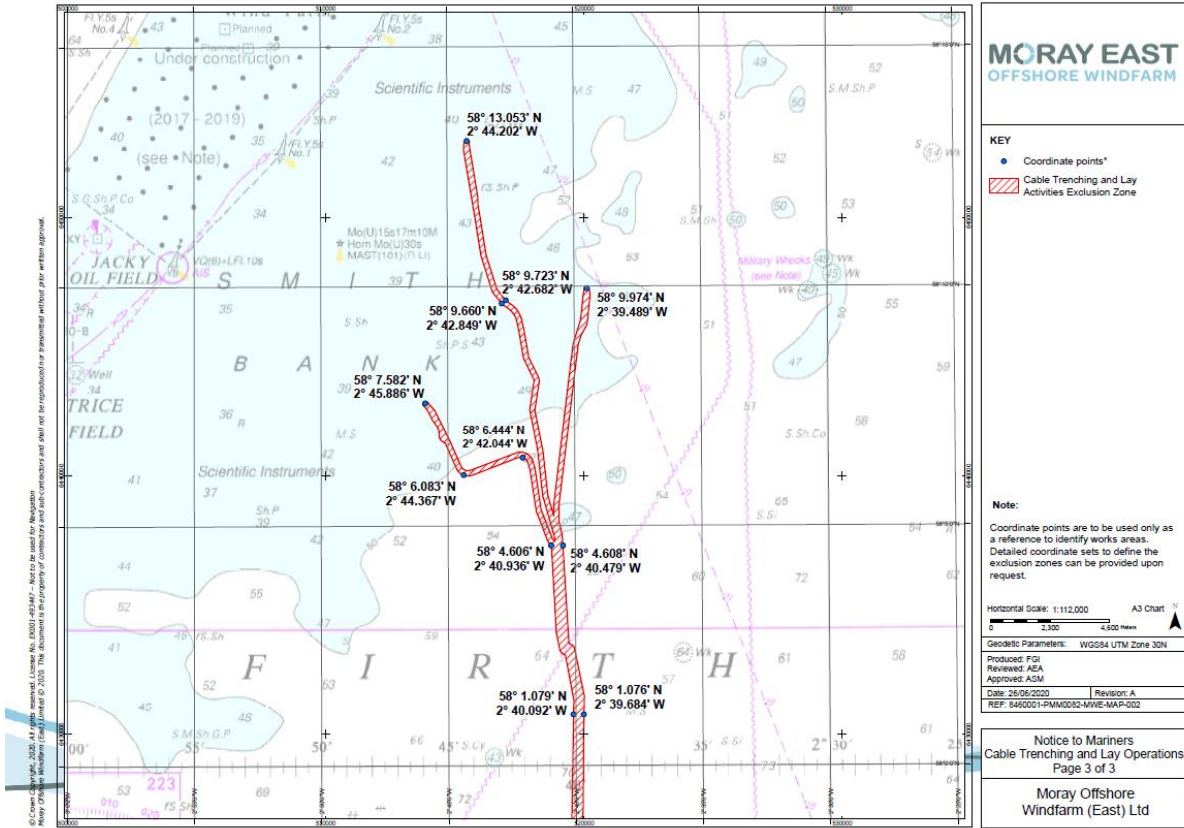


Figure 15. Trenching works area (OEC North and wind farm site)

***Note:** these are provided as a reference, they do not fully define the complex shape of the proposed works area

Table 4. Cable Trenching Works Area:

Point	Easting	Northing	Latitude	Longitude
1	513855.2763	6442802.362	58° 7.582' N	2° 45.886' W
2	515468.7792	6452962.218	58° 13.053' N	2° 44.202' W
3	520112.6762	6447268.831	58° 9.974' N	2° 39.489' W
4	515357.5066	6440026.992	58° 6.083' N	2° 44.367' W
5	517636.478	6440706.692	58° 6.444' N	2° 42.044' W
6	519602.4744	6430759.824	58° 1.079' N	2° 40.092' W

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7	520004.1422	6430757.137	58° 1.076' N	2° 39.684' W
8	520177.1892	6411789.465	57° 50.854' N	2° 39.605' W
9	520616.2838	6411820.099	57° 50.869' N	2° 39.161' W
10	525747.2719	6392431.514	57° 40.404' N	2° 34.100' W
11	523493.9396	6402457.701	57° 45.815' N	2° 36.308' W
12	524160.4246	6402565.899	57° 45.871' N	2° 35.635' W
13	527114.2579	6395183.312	57° 41.882' N	2° 32.706' W
14	525943.12	6392286.029	57° 40.325' N	2° 33.904' W
15	526667.8056	6395151.833	57° 41.867' N	2° 33.156' W
16	519526.6583	6420086.935	57° 55.327' N	2° 40.222' W
17	519998.6634	6420045.415	57° 55.303' N	2° 39.744' W
18	518740.8304	6437300.968	58° 4.606' N	2° 40.936' W
19	519189.6402	6437305.956	58° 4.608' N	2° 40.479' W
20	516984.1033	6446788.996	58° 9.723' N	2° 42.682' W
21	516820.0648	6446669.754	58° 9.660' N	2° 42.849' W

MORAY EAST OFFSHORE WINDFARM

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Havila Phoenix	
General Description and Dimensions:	Length 127.4m, Beam 23m Draught 6.35m
Call Sign:	C6BD2
MMSI:	311000229
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	captain.phoenix@havalaship.com
Onshore Representative:	Andrew Small



Figure 16. Cable burial vessel.

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5. Moray East Offshore Wind Farm: Diving Campaign near Boyndie Bay

As part of the three export power cable installations for Moray East Offshore Wind Farm, Moray East and their contractor NKT commenced diving works near Boyndie Bay. This includes the preparation works on the HDD duct (offshore) exit (Complete), cable installation support works (Complete), and post-cable installation grouting and finishing works for the project. This diving campaign is currently suspended but expected to reach completion circa mid December.

6. Guard Vessels

Kinnaird Marine Limited has been appointed by Moray East to provide guard vessels during the construction works for the wind farm site. For the export cable works, guard vessels are supplied by contractor NKT via DR Maritime Assets.

Apart from times of extreme weather, there will always be at least one guard vessel on station during construction operations. 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.

Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

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6.1 Windfarm Area Guard Vessels (Kinnaird Marine)

Guard Vessel – GV Replenish

GV Replenish	
General Description and Dimensions:	Guard Vessel LOA: 24.36 m, Beam: 7.17 m, Draught 3.48 m
Call Sign:	MASY7
MMSI:	235055180
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvreplenish@gmail.com
Onshore Representative:	Magnus Currie



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Guard Vessel – Bountiful

Bountiful	
General Description and Dimensions:	Guard Vessel LOA: 21.1m, Beam: 6.9 m, Draught 3.8m
Call Sign:	MJLF4
MMSI:	232004846
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	kmsability@gmail.com
Onshore Representative:	Magnus Currie



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Guard Vessel - Kinnaird

GV KMS Kinnaird	
General Description and Dimensions:	Guard Vessel LOA: 23 m, Beam: 6 m, Draught 3.2 m
Call Sign:	GHNE
MMSI:	232004523
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	KMSKinnaird@gmail.com
Onshore Representative:	Magnus Currie



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7.2 NKT Guard vessels (DR Maritime Assets Vessels Guarding Export Cable)

GV Rover Alpha

GV Rover Alpha	
General Description and Dimensions:	Guard Vessel LOA: 19.21 m, Beam: 6 m, Draught 3.4 m
Call Sign:	MLAS2
MMSI:	235010380
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	rinkster@nessoffshore.co.uk
Onshore Representative:	Andy Small



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GV Renown

GV Renown	
General Description and Dimensions:	Guard Vessel LOA: 20.4 m, Beam: 6.5 m, Draught 3.4 m
Call Sign:	MEX09
MMSI:	232021109
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvrenown@gmail.com
Onshore Representative:	Andy Small



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GV Adventure

GV Adventure	
General Description and Dimensions:	Guard Vessel LOA: 24 m, Beam: 6 m, Draught 4.3 m
Call Sign:	21FE4
MMSI:	235109237
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Gvadventure3@gmail.com
Onshore Representative:	Andy Small



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GV Resplendent

GV Resplendent	
General Description and Dimensions:	Guard Vessel LOA: 25.41 m, Beam: 6.42 m, Draught 2.55 m
Call Sign:	MJUU2
MMSI:	235018597
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvresplendent@gmail.co.uk
Onshore Representative:	Andy Small



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GV Resilient

GV RESILIENT 111	
General Description and Dimensions:	Guard Vessel LOA: 26 m, Beam: 7 m, Draught 2.6 m
Call Sign:	SEEG
MMSI:	232711000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	
Onshore Representative:	Andy Small



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GV Resolute

GV RESOLUTE	
General Description and Dimensions:	Guard Vessel LOA: 25.2 m, Beam: 6.86 m, Draught 2.6 m
Call Sign:	MLPD5
MMSI:	235069036
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvresolute@gmail.co.uk
Onshore Representative:	Andy Small



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GV Resolution

GV RESOLUTION	
General Description and Dimensions:	Guard Vessel LOA: 18.25 m, Beam: 6.58 m, Draught 3.7 m
Call Sign:	MBCZ5
MMSI:	235002260
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Gvresolution@gmail.com
Onshore Representative:	Andy Small



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GV Silver Wave

GV Silver Wave	
General Description and Dimensions:	Guard Vessel LOA: 18 m, Beam: 6 m, Draught 2.6 m
Call Sign:	MKQQ4
MMSI:	235031151
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvsilverwave@gmail.com
Onshore Representative:	Andy Small



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GV ABILITY

GV Ability	
General Description and Dimensions:	Guard Vessel LOA: 23.06 m, Beam: 6.4 m, Draught 2.6 m
Call Sign:	MDFW3
MMSI:	235014666
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvability@gmail.com
Onshore Representative:	Andy Small



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GV Silver Harvester

GV Silver Harvester	
General Description and Dimensions:	Guard Vessel LOA: 22.5 m, Beam: 6.8 m, Draught 2.8 m
Call Sign:	MMAS9
MMSI:	235009094
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Jkearney3@yahoo.com
Onshore Representative:	Andy Small



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7. Crew Transfer Vessels/Offshore support

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) will be utilising CTVs (Crew Transfer Vessels) to support offshore works on the newly installed Jackets and Offshore Substations. The CTVs will be transiting daily from both Fraserburgh and Wick

Windcat 19	
General Description and Dimensions:	CTV LOA: 21m, Beam: 6 m, Draught 2.4 m
Call Sign:	2ATD3
MMSI:	235062747
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	windcat19@windcatworkboats.com
Onshore Representative:	Magnus Currie



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GXS VIKING (Standby from 17/11/2020)	
General Description and Dimensions:	CTV LOA: 18.2 m, Beam: 8 m, Draught 1.5 m
Call Sign:	2EKH5
MMSI:	235085842
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gulfxstream@aol.com
Onshore Representative:	Magnus Currie



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Patriot	
General Description and Dimensions:	CTV LOA: 26m, Beam: 7 m, Draught 1.5 m
Call Sign:	PDEN
MMSI:	244110559
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	patriot@braveheartmarine.com
Onshore Representative:	Colin Allan



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8. General Safety Advice

Please be aware that by virtue of their mode of operation and the equipment deployed the Scylla, Normand Energy, Atlantic Tonjer, Boa Sub C, Havila Phoenix, Living Stone, Deep Cygnus, Ndeavour, Flintstone and Grand Canyon 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 it work and showing the appropriate shapes and lights in accordance with COLREGs Rule 18.

In order to not compromise the safety of the project vessels and their crew, and each vessel's ability to undertake its contracted works, fishermen who have static fishing gears deployed within the defined Moray East site (see Figure 2) are requested to provide the coordinates of such deployed gears in DMS and details of whether the surface markers used are visible at all states of visibility to Alex Winrow-Griffin (Brown & May Marine) using the contact information in the Fisheries Liaison section below (Section 58 of the Merchant Shipping Act 1995).

Fishermen who have static gears deployed beyond 12 nm are reminded that static gear must be marked in accordance with Commission Implementing Regulation (EU) No. 404/2011 (<https://www.gov.uk/guidance/markings-of-fishing-gear-retrieval-and-notification-of-lost-gear#marking-of-fishing-gear>).

The Scottish Ministers have authorised the use of the following safety zones as per Notice to Mariners to follow:

1. A 500 metre radius around each WTG and OSP where construction works are taking place that include sensitive activities being undertaken by vessels RAM. A maximum of three of such zones is permitted at any one time.
2. A 50 metre radius around partially completed WTGs and OSPs where work is not underway and the risk assessments identify a need.
3. A 50 metre radius around each completed WTG and OSP prior to commissioning and as required by a risk assessment process.

All mariners are requested to give all construction and support vessels a safe passing distance and contact the vessel on VHF CH16 to ascertain what distance is required dependant on their ongoing operation.

Mariners are requested to navigate with caution, to use all means appropriate to aid safe navigation as defined under COLREGs Rule 7, and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

Table 5. Expected Safety zones for the coming week (a maximum of three Safety Zones will be active simultaneously)

Structure requiring Safety Zone	Associated vessels	Active Safety Zones Anticipated
All Locations	GMS Endeavour	500m whenever listed vessel present, 50m otherwise
All Locations	Seajacks Scylla	500m whenever listed vessel present, 50m otherwise
All Locations	Boa Sub C	500m whenever listed vessel present, 50m otherwise

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All Locations	Normand Energy	500m whenever listed vessel present, 50m otherwise
All Locations	Deep Cygnus	500m whenever listed vessel present, 50m otherwise

*Note an on site vessel will provide up to date details on a live basis as to ongoing works and safety zones.

9. Meteorological Mast Unlit

Met Mast De-cluttering and Decommissioning

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) will be carrying out Decommissioning and removal of the met mast steel lattice tower and subsea cut of the monopile circa 17/11/2020 for approximately 14 days not inclusive of weather downtime.

Personnel and equipment for these works will be based initially on the JUV GMS Endeavour (Figure 19) for decluttering, once the tower structure is demobilised the transition piece and lower section of the monopile will be removed by the Salina (Figure 20). The Selina will be assisted by KML Sarah Grey and KML Severn Sea (Figure 21 & Figure 22). Windcat 6 (Figure 24) will be used for safety purposes providing over the side cover whilst the lattice tower is disassembled by rope access teams.

On completion of the works there will be an underwater obstruction to navigation comprising the concrete caisson and lower section of the monopile. A special mark buoy will be deployed to mark the obstruction and an NTM will be issued once the buoy is installed with its position.

The location of the Met Mast where the decommissioning works will take place is depicted in Figure 18 and coordinates given in Table 6.

Table 6 – Met mast coordinates

Name	Latitude (DMS)	Longitude (DMS)	Latitude (DM)	Longitude (DM)
Met Mast	58° 10' 55.680" N	2° 49' 12.892" W	58° 10.928' N	2° 49.215' W

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Figure 17 – Photograph of the Meteorological Mast

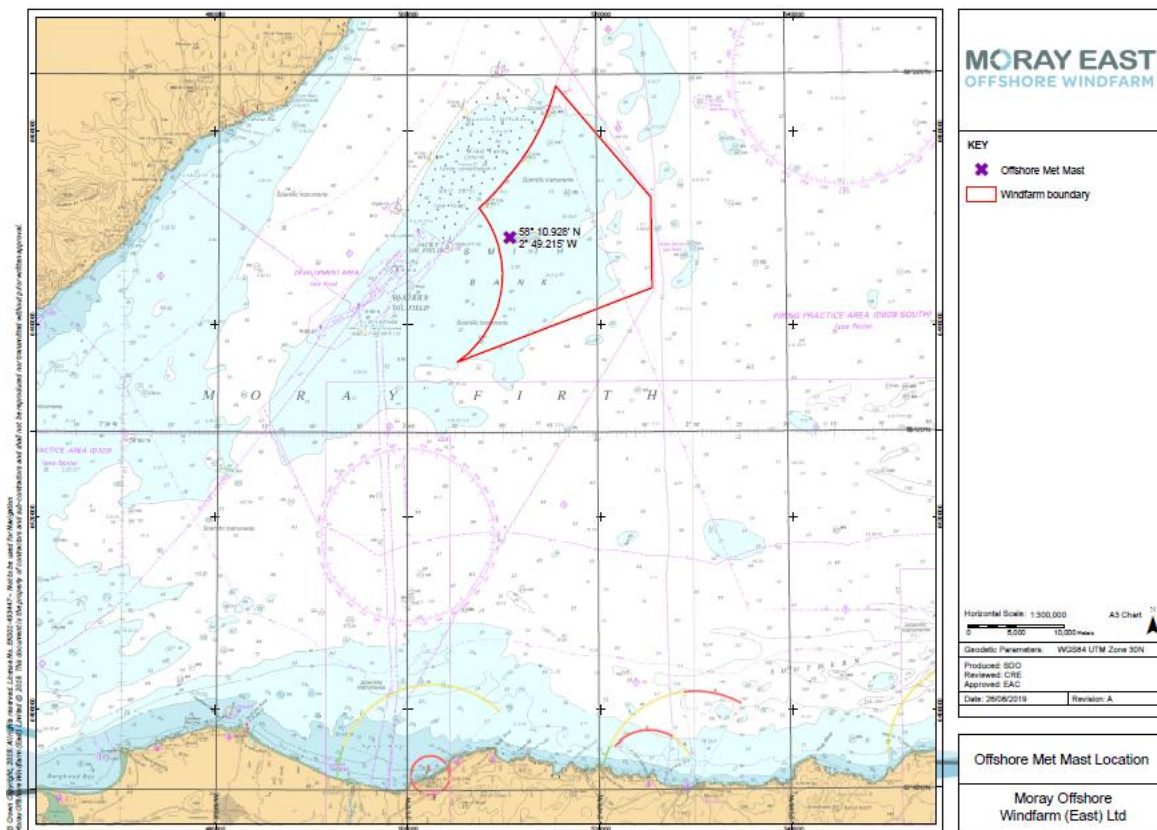


Figure 18 – Meteorological Mast location map

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GMS Endeavour	
General Description and Dimensions:	LOA: 84.1m, Beam: 36m, Draught 5.9m
Call Sign:	3EUG6
MMSI:	370582000
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	endeavour.6102@fleet.gmsuae.com
Onshore Representative:	Carl Galfskiy



Figure 19 – GMS Endeavour

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Selina	
General Description and Dimensions:	Flat top barge
Call Sign:	SFNC
IMO/MMSI	None. As it is not navigable.
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	selina@keynvormorlift.co.uk
Onshore Representative:	Carl Galfskiy



Figure 20 Selina Barge

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Severn Sea	
General Description and Dimensions:	Multi purpose installation vessel
Call Sign:	2DCG5
IMO/MMSI:	8652043/235077754
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	severnsea@keynvormorlift.co.uk
Onshore Representative:	Carl Galfskiy



Figure 21 Severn Sea

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Sarah Grey	
General Description and Dimensions:	Multi cat
Call Sign:	ZQQ5
IMO/MMSI	8956437 / 235000357
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	sarahgrey@keynvormorlift.co.uk
Onshore Representative:	Carl Galfskiy



Figure 22 Sarah Grey

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Venture	
General Description and Dimensions:	Handling Tug
Call Sign:	2HUC5
IMO/MMSI	7529469/235106674
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Venture@keynvormorlift.co.uk
Onshore Representative:	Carl Galfskiy



Figure 23 Venture

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Windcat 6	
General Description and Dimensions:	CTV LOA: 16 m, Beam: 6 m, Draught 1.9m
Call Sign:	MXFD
MMSI:	23057789
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	Windcat6@windcatworkboats.com
Onshore Representative:	Carl Galfskiy



10 Accommodation JUV vessel for commissioning of Offshore Substation Platforms

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) deployed the Jack Up Vessel GMS Endeavour to Site 1. The vessel will supply accommodation for workers carrying out commissioning works on OSP1, OSP2 and OSP3 (within Figure 25 bounded area/Site 1). She will be located next to the structures circled on Figure 25.

Commenced 21/08/2020 until move to OMM, currently jacked up at OSP1.

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Figure 25. Area of Operation

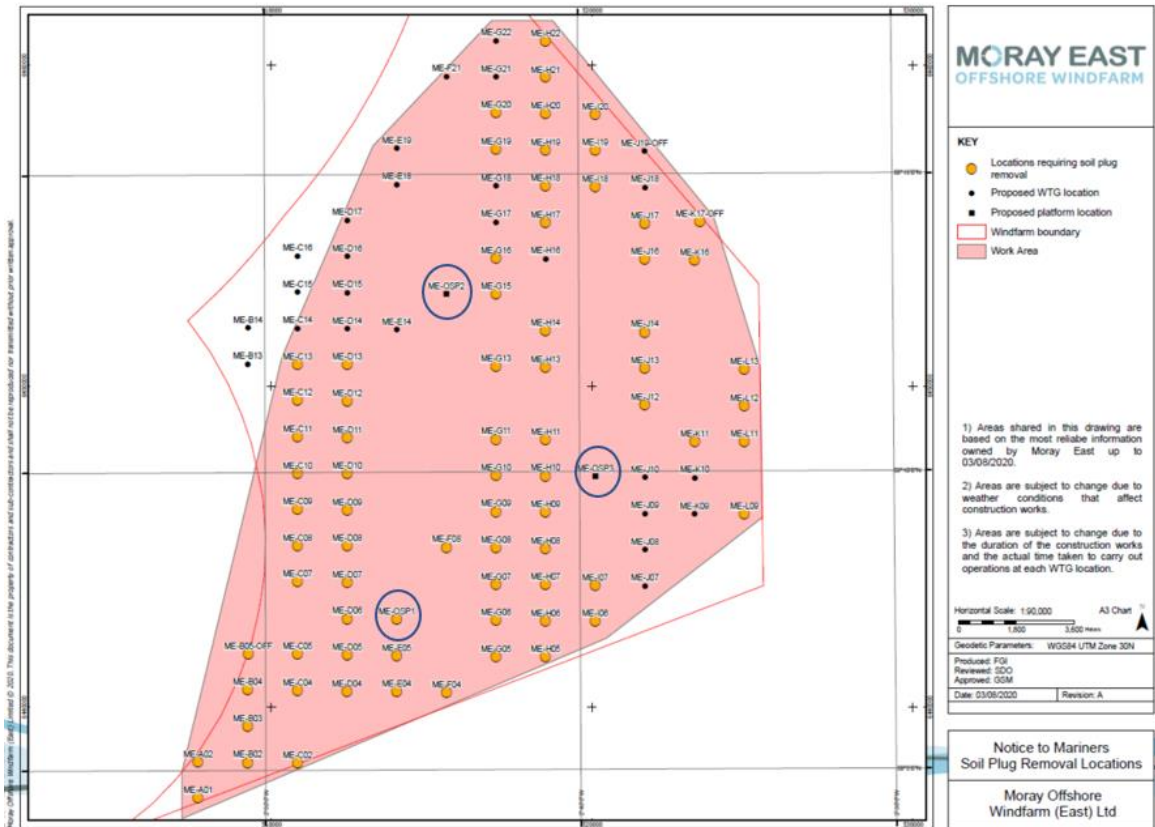


Table 7 Coordinates of OSP's

Location ID	Latitude (DD MM.mmm)	Longitude (DD MM.mmm)
ME-OSP1	58° 7.546' N	2° 45.830' W
ME-OSP2	58° 13.007' N	2° 44.214' W
ME-OSP3	58° 9.928' N	2° 39.502' W

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JUV GMS Endeavour

GMS Endeavour	
General Description and Dimensions:	LOA: 84.1m, Beam: 36m, Draught 5.9m
Call Sign:	3EUG6
MMSI:	370582000
On Board Contact:	Master
Offshore Manager / Party Chief:	John Bromwell
E-mail:	endeavour.6102@fleet.gmsuae.com
Onshore Representative:	Ross Cottam



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11 Inter Array Cable Installation and Support Works - 1st campaign complete.

12 Inter Array Cable Termination and Testing.

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) are carrying out Inter Array Cable Burial, Testing and Termination Works within the bounds of site 1. The Testing and Termination Works will be carried out from the Offshore Substation Platforms and Wind Turbine Generators.

Cable Burial will be carried out by Ndeavour and Grand Canyon 3 on installed cables shown in Figure 26.

Personnel and equipment for these works will be based on the Offshore Support Vessel, Siem Barracuda. Personnel and equipment will be transported by the Siem Barracuda between Offshore Substation Platforms and Wind Turbine Generators. Siem Barracuda will be completing Testing and Termination works on the cable routes identified in Figure 26.

Siem Barracuda will be restricted in its ability to manoeuvre during transfer of personnel and equipment to and from the Offshore Substation Platforms and Wind Turbine Generators.

The overall work scope will be carried out in 2 campaigns – Campaign 1 commencing 11/11/20 to 23/01/20 and Campaign 2 commencing 04/04/21 to 11/06/21

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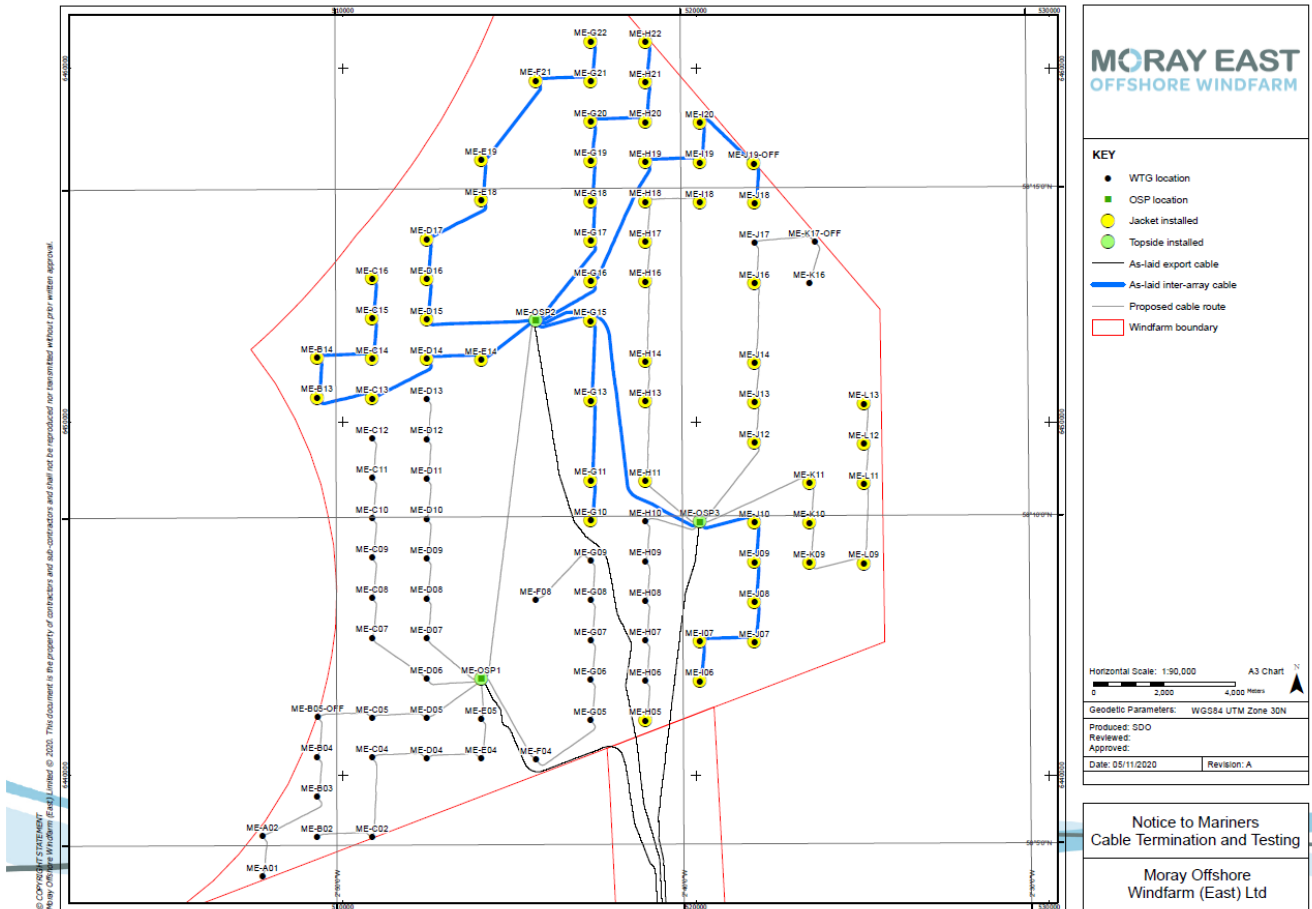


Figure 26 Locations of cable Burial, terminations and testing on installed IAC's

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SIEM BARRACUDA	
General Description and Dimensions:	Walk to Work Vessel OAL: 120.8m Beam:22m Draft: 9m
Call Sign:	5BZQ3
MMSI:	21225300
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	captain@barracuda.siemoffshore.com
Onshore Representative:	Neil Crawford



Figure 27. Siem Barracuda

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IAC Support Vessel Grand Canyon	
General Description and Dimensions:	Support Vessel LOA: 127.75 m, Beam: 25.2m, Draught 6.7 m
Call Sign:	LACJ8
MMSI:	257010590
On Board Contact:	Master
Offshore Manager / Party Chief:	Jamie Davidson
E-mail:	master@grand-canyon3.no
Onshore Representative:	Ross Cox



Figure 28 Grand Canyon

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IAC Burial Vessel Ndeavour	
General Description and Dimensions:	IAC Burial Vessel LOA: 99 m, Beam: 30m, Draught 6.7 m
Call Sign:	5BVG3
MMSI:	209852000
On Board Contact:	Master
Offshore Manager / Party Chief:	Jamie Davidson
E-mail:	master@grand-canyon3.no
Onshore Representative:	Ross Cox



Figure 29 Ndeavour

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Crew Transfer Vessel World Calima	
General Description and Dimensions:	CTV LOA: 23.65 m, Beam: 9.5m, Draught 2.3 m
Call Sign:	OWJX2
MMSI:	219019934
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	ross.cox@edpr.com
Onshore Representative:	<u>Ross Cox</u>



Figure 30 World Calima

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12 Cable Protection Operations.

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) are planning to commence cable protection operations post export cable installation work scope, mobilizing circa 16th of November 2020 within the bounds of Figure 2..

The Flintstone may complete post trench MBES survey work on all 3 OEC routes and rock placement for Trip 1 and Trip 2 is expected in the areas shown in Figure 32 plus coordinates in Table 8 below.

The rock placement for Trip 1 and Trip 2 is limited to the areas approximately between the HDD and KP35 on OEC-2 as per Figure 32.

Table 8. Coordinates for Bounded Area

Point	Latitude	Longitude
a	58° 0.944' N	2° 42.000' W
b	58° 0.986' N	2° 38.147' W
c	57° 48.519' N	2° 36.763' W
d	57° 40.968' N	2° 30.494' W
e	57° 40.231' N	2° 33.786' W
f	57° 48.351' N	2° 40.438' W

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Flintstone	
General Description and Dimensions:	LOA: 154.6 m, Beam: 32.23 m, Draught: 7.74 m
Call Sign:	PBZD
MMSI:	245861000
On Board Contact:	Mob: +494215172191963
Offshore Manager / Party Chief:	Vessel Master
E-mail:	captain.flintstone@ships.deme-group.com
Onshore Representative:	Andy Small



Figure 31. Rock Placement Vessel Flintstone

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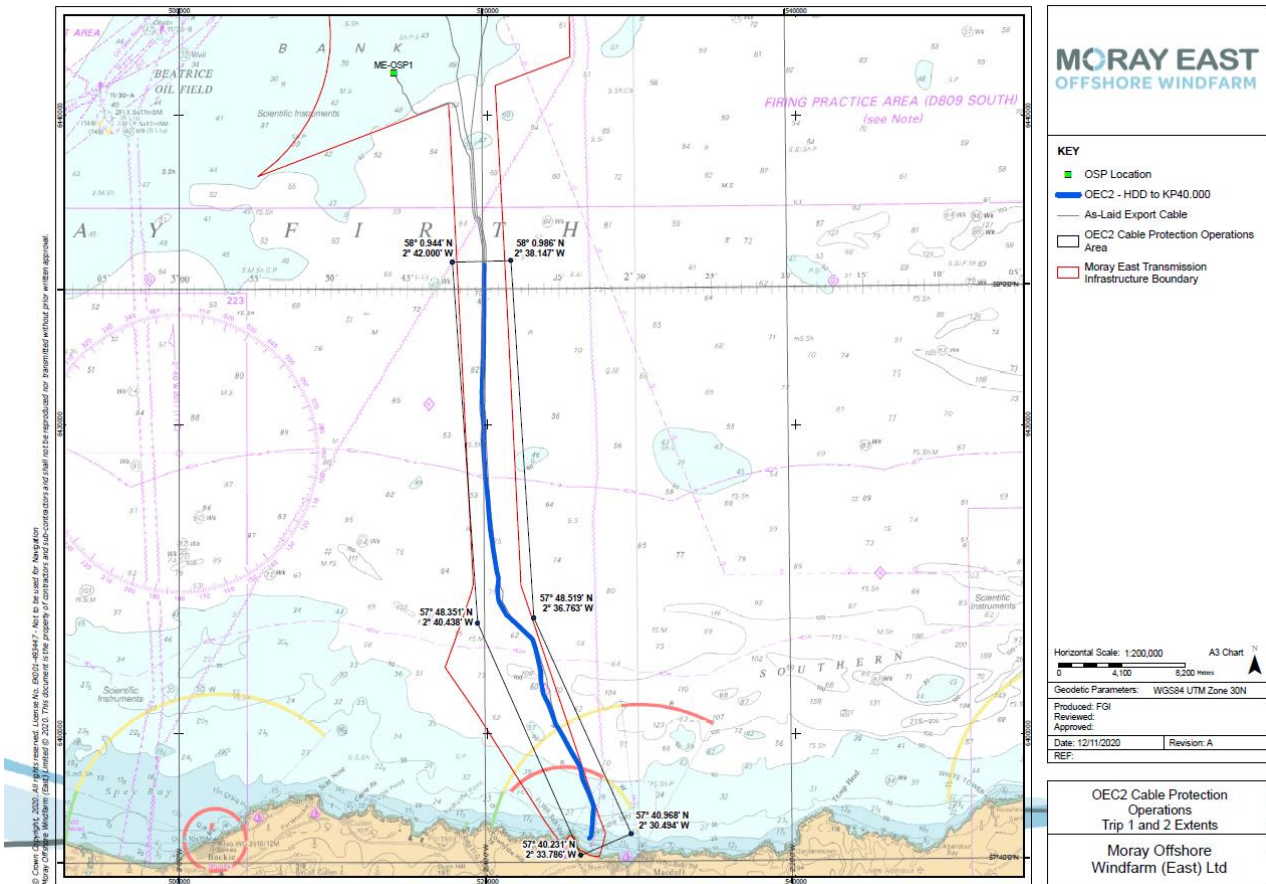


Figure 32. Bounded Cable Protection Area

a

13 Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine. For any commercial fishery queries please contact:

Alex Winrow-Giffin - Brown and May Marine Ltd.

Email: alex@brownmay.com

Tel: +44 1379 872148 / + 44 7760 160039

An Offshore Fisheries Liaison Officer is currently deployed onboard the GV Resolute and Silver Harvester, the vessels can be contacted on VHF CH16 or via +44 (0) 1346 490795

14 Distribution List

The distribution of this notice is as per email recipient's header. A central list of recipients is maintained by the Marine Coordinator; if you are not the appropriate recipient of these notices, or do not wish to receive the notices in the future, please contact us at the address included in Section 1 of this notice.

MORAY EAST WEEKLY NOTICE OF OPERATIONS	Issue Date	16/11/2020
	Ref: 8460001-PC0010-MWE-REP-0089	Rev: 01

15 Website

The official website of Moray Offshore Windfarm (East) Limited can be found at:

<https://www.morayeast.com/current-works/offshore-works>

This website will contain all Notices to Mariners (NtMs) published by Moray East during the construction phase of the project, Weekly Notices of Operations and general information about the project.

16 . Completed Operations.

16.1 Piling Operations

Installation of all piles was completed on 27/02/2020.

The piling operations commenced on the 19th May 2019 and were completed on 27th February 2020.

The Data/positions for the installed piles are available for the following Electronic chart Plotters:

- Maxsea
- Sodena
- Olex
- Time Zero

The information is made available by contacting John Watt (Brown and May)

John.watt@brownmay.com 07590880746

16.2 Horizontal Directional Drilling (HDD) Completed

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) have completed HDD construction works. The G1500 buoy which marked the HDD punch out area (position 57 40.8431 002 33.2214) has now been removed.