

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Work Planned for the Period 09th October to 15th October 2023

Construction work for Moray West Offshore Wind Farm commenced on the 6th February 2023.

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 West is developing the Moray West Offshore Wind Farm in the Moray Firth. The Moray West Site covers an area of approximately 225 km² on the Smith Bank in the Outer Moray Firth approximately 22 km from the Caithness coastline. The development will consist of 60 offshore wind turbines (WTGs) (with a total capacity of approximately 882 MW) and two Offshore Substation Platforms (OSPs) with associated subsea WTG inter-array cables and an OSP interconnector cable. The generated power will be transmitted to the grid via two subsea export cable circuits that will come ashore at Sandend Bay, which is located on the Aberdeenshire coast at Broad Craig near Sandend Bay, approximately 65 km south of the Moray West Site. There are two underground cable circuits currently under construction from the landfall at Broad Craig to Whitehillock near Keith in Moray where the Moray West onshore substation is under construction. There are also further underground cables being installed between Whitehillock substation and the existing Scottish Hydro Electric Transmission Blackhillock substation. The Moray West 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.

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

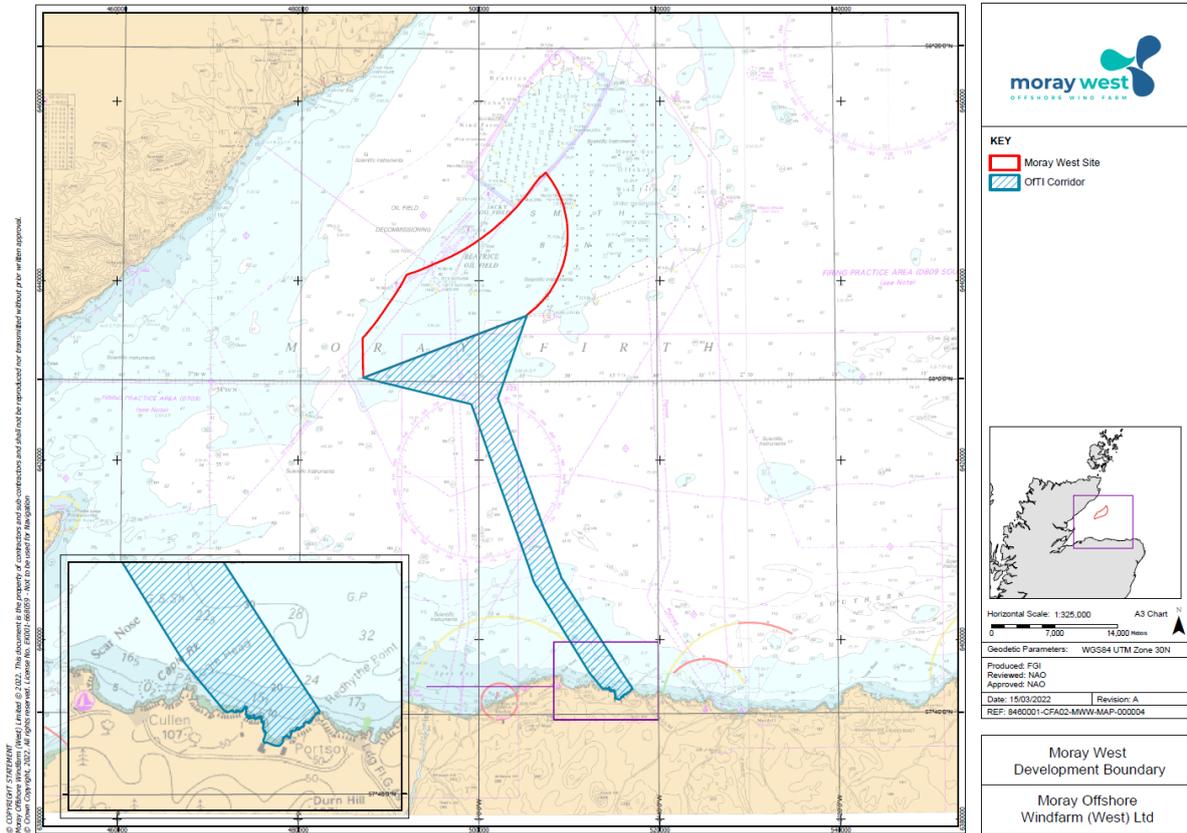


Figure 1 - Moray West Offshore Development Boundary

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

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

The current construction works are as follows:

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MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

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.

Duty MC (24/7)	+44 (0) 7774663504
Emergency Contact (24/7)	+44 (0) 8001488832
Marine Coordinator Email	MCC@moraywest.com
Address	Shore Street, Fraserburgh, AB43 9BR

2 Ongoing Works-

2.1 - Pre Lay Grapnel and Pre-lay survey -September 2023 Inter Array cable route

Scope of work includes deployment of grapnel equipment from a winch wire which will be towed by the vessel, this is to relocate any rope/ wire debris from cable routes, ahead of forthcoming cable lay activities (a separate NtM will be issued for lay operations in the future). Also, an ROV survey of the array cable routes will be conducted.

The work will be performed by the Seaway Aimery.

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

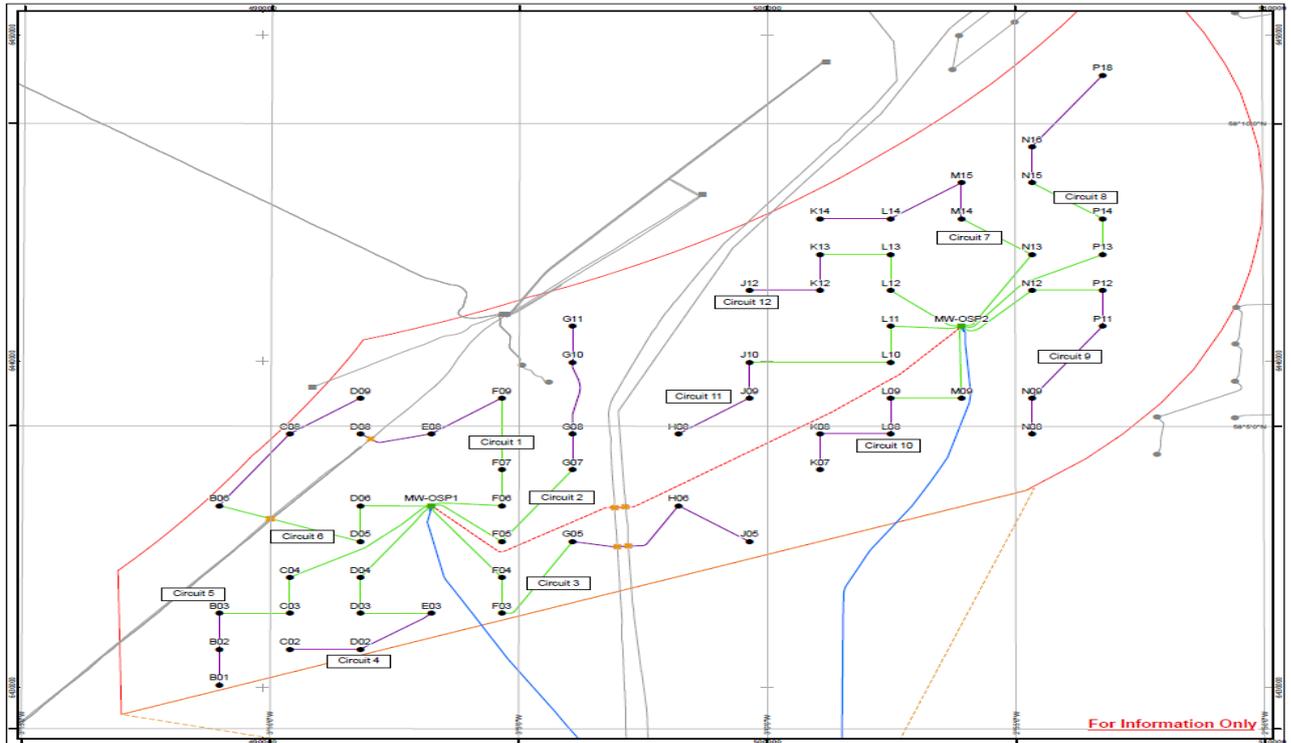


Figure 1. Moray West Wind Farm Site. Location of the cable routes for the works

The vessel works are to take place within the red boundary shown in the figure above.

The vessel is expected to arrive on site on 27th September 2023 and work duration is expected to be approximately 4 weeks.

Pre lay Grapnel and Pre-lay survey works.

Scope of work includes deployment of grapnel equipment from a winch wire which will be towed by the vessel, this is to relocate any rope/ wire debris from cable routes, ahead of forthcoming cable lay activities. Also, an ROV survey of the array cable routes will be conducted.

The work will be performed by the Seaway Aimery.

The coordinates of the work site boundary are presented in the below Table 1 (these are the same as presented in Figure 1 above):

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Windfarm site boundary Coordinates				
Site ID	UTM30(N) Easting (m)	UTM30(N) Northing (m)	WGS84 Latitude	WGS84 Longitude
1	505117	6436040	58° 3.946' N	2° 54.796' W
2	507845	6438790	58° 5.426' N	2° 52.017' W
3	509247	6441560	58° 6.918' N	2° 50.583' W
4	509828	6445010	58° 8.780' N	2° 49.983' W
5	509362	6448300	58° 10.551' N	2° 50.450' W
6	508444	6450480	58° 11.729' N	2° 51.382' W
7	507377	6452080	58° 12.588' N	2° 52.468' W
8	506584	6451400	58° 12.223' N	2° 53.279' W
9	504067	6448160	58° 10.482' N	2° 55.851' W
10	500728	6445090	58° 8.825' N	2° 59.258' W
11	496301	6442410	58° 7.380' N	3° 3.768' W
12	491909	6440620	58° 6.413' N	3° 8.237' W
13	489705	6437070	58° 4.496' N	3° 10.472' W
14	487142	6433650	58° 2.650' N	3° 13.068' W
15	487208	6429170	58° 0.237' N	3° 12.986' W

Table 1 above

The Pre lay grapnel and survey operations with the completed by the cable lay vessel 'Seaway Aimery'. Details are provided in table 2 below.

Table 2. Vessel 'Seaway Aimery' General Information

Vessel Name	Seaway Aimery
MMSI Number	232015468
Operating Company	Seaway 7
Vessel Call Sign	MDB02
Vessel Phone Number	+47 2278 5367
Vessel Email Address	

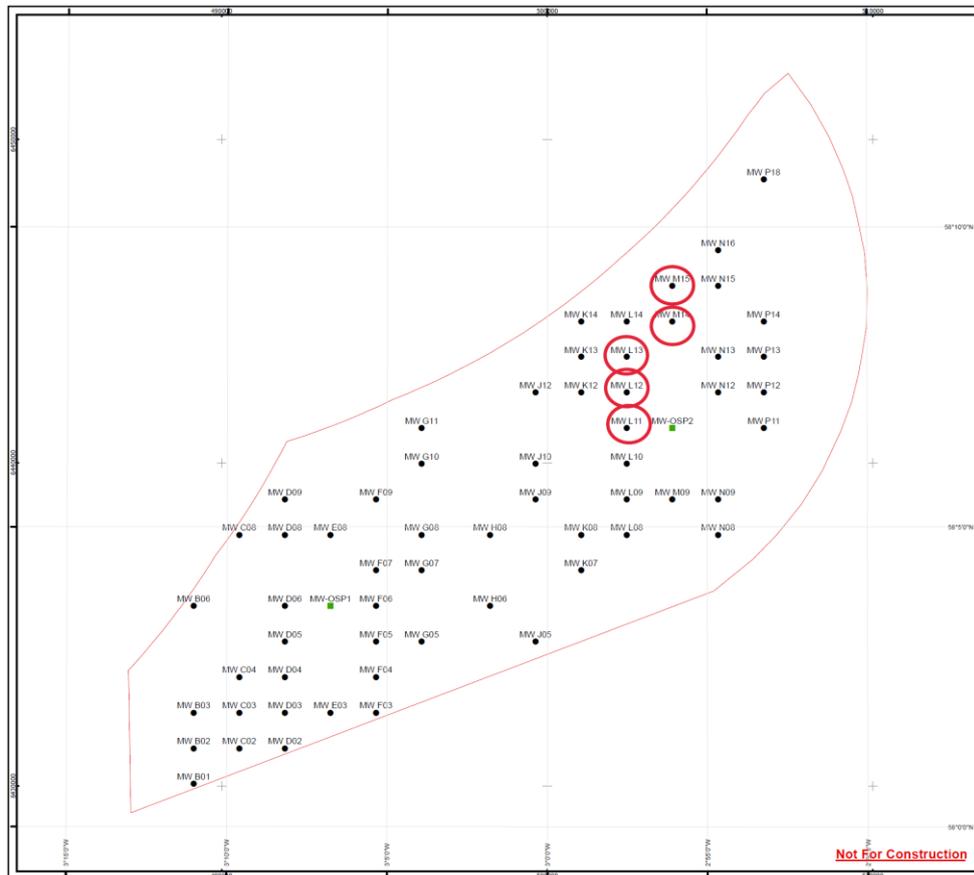
MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00



Figure 2. Seaway Aimery – photo of the vessel

2.2 Monopile Installation Activities

Scope of works involves installation of Monopiles. This weeks activity involves completion of monopiles for set #1, L11 & L13. Vessel will then transit to Invergordon to collect 3x piles for set #2 M15, L12 & M14. Installation locations per attached sketch:



MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Monopiles will be installed through pre-installed scour pads and driven to depth using impact hammer. Following successful installation of Monopiles, a temporary navigation light structure will be installed on the top of each monopile. Vessel being utilised is Bokalift 2 details as follows:

<p>Boskalis Bokalift 2</p> 	<p>Heavy Lift Vessel</p> <p>Monopile Installation</p> <p>TP Installation</p> <p>J tube cage Installation</p> <p>OSP Topsides installation</p>	<p>Boskalis</p>	<p>Call Sign: 5BMC5 Captain Office: +31 78808 0347 Bridge: +31 78808 0325 Mobile: +881 677 116 872 Fleet Manager: T +31 78 69 69 169 M +31 62 21 42 310 E-mail: bokalift2-bridge@boskalis.com bokalift2-captain@boskalis.com</p>
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Installation Status: Green – Complete Light Blue – Ongoing Red – Not Installed			
Asset ID	Monopile Installed	TP Installed	WTG/Topside Installed
MW-B01			
MW-B02			
MW-B03			
MW-B06			
MW-C02			
MW-C03			
MW-C04			
MW-C08			
MW-D02			
MW-D03			
MW-D04			
MW-D05			
MW-D06			
MW-D08			
MW-D09			
MW-E03			



MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

MW-E06 (OSP1)			
MW-E08			
MW-F03			
MW-F04			
MW-F05			
MW-F06			
MW-F07			
MW-F09			
MW-G05			
MW-G07			
MW-G08			
MW-G10			
MW-G11			
MW-H06			
MW-H08			
MW-J05			
MW-J09			
MW-J10			
MW-J12			
MW-K07			
MW-K08			
MW-K12			
MW-K13			
MW-K14			
MW-L08			
MW-L09			
MW-L10			
MW-L11			
MW-L12			
MW-L13			
MW-L14			
MW-M09			
MW-M11 (OSP2)			
MW-M14			
MW-M15			
MW-N08			
MW-N09			
MW-N12			
MW-N13			

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

MW-N15			
MW-N16			
MW-P11			
MW-P12			
MW-P13			
MW-P14			
MW-P18			

3 Completed Works

3.1 – All Marine HDD works on HDD1, and HDD2 completed 22/03/2023

Leaving behind Inshore Marker buoy in position

Latitude: 57 41.2922N, Longitude: 002 43.8006W



And a Weather Data Buoy in position

Latitude : 57 41.2922N, Longitude: 002 43.8006W



MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

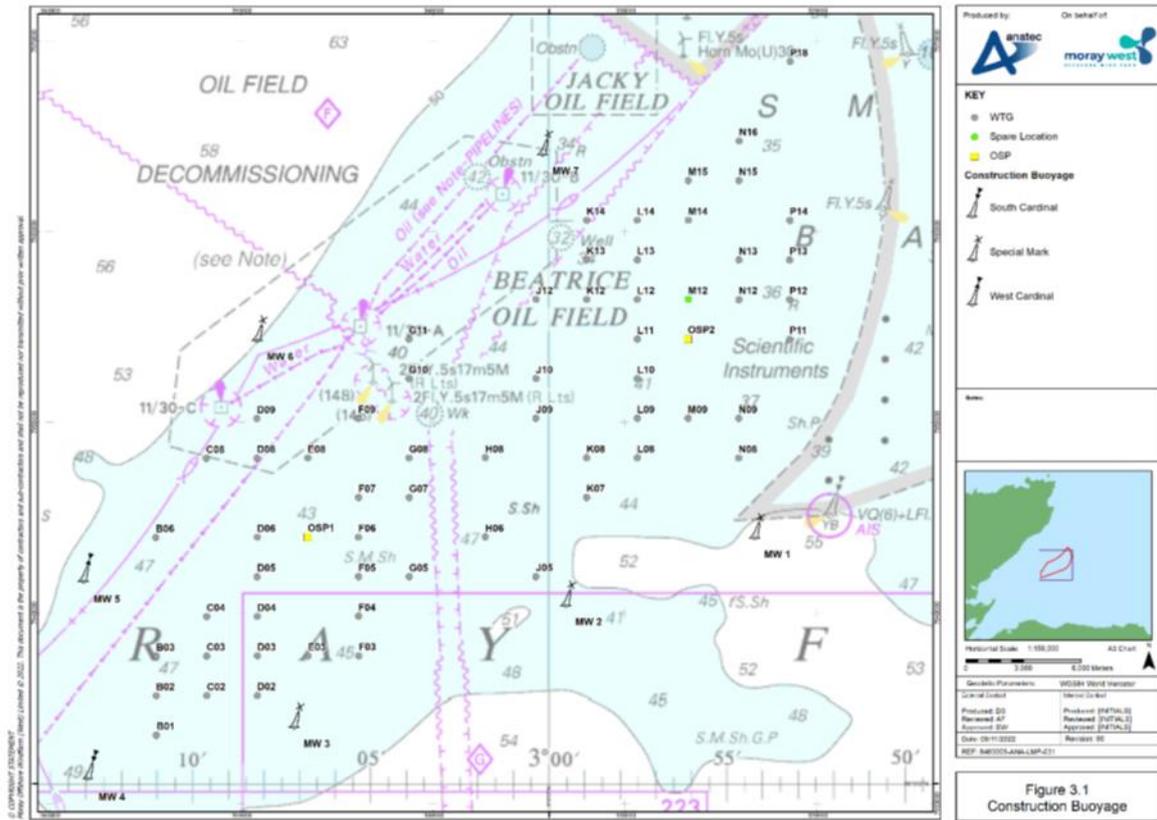
3.2 Moray West Construction Markers

Moray West has completed the deployment of seven construction buoys around the Moray West site. The marker buoys will remain in place until after construction of the Moray West Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the table below.

Table 7 – Marker Buoy Locations

Buoy	ID	Location	Light and Top Mark Specification
Special Mark	MW1	58° 03.881' N 002° 54.231' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW2	58° 02.667' N 002° 59.024' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW3	58° 00.841' N 003° 07.174' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
South Cardinal	MW4	58° 00.071' N 003° 12.941' W	<ul style="list-style-type: none"> • Pillar shaped with a south cardinal shaped topmark • V Quick (Q) (6) + L Fl 10s W light character.
West Cardinal	MW5	58° 03.029' N 003° 13.071' W	<ul style="list-style-type: none"> • Pillar shaped with a west cardinal shaped topmark • V Quick (9) 10s W light
Special Mark	MW6	58° 06.643' N 003° 08.196' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW7	58° 09.495' N 003° 00.377' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00



Layout of demarcation Buoyage (Figure6)

3.3 PLGR completed by Nexans Skagerrak 20/07/2023.

3.4 Scour protection Completed on all 62 locations by Rockpiper 03/08/2023.

3.5 PAM deployment completed by MV Waterfall 25/08/2023 (see table 1 below)

3.6 UXO Disposal works completed by Glomar Wave 01/09/2023.

3.7 Boulder relocation works completed by Olympic Electra and Glomar Wave 04/09/2023

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Table 1 Deployed moorings PAM ref 3.5

Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
372	58° 02.506' N	3° 11.040' W	Subsurface	Moray West
373	58° 03.100' N	3° 09.614' W	Subsurface	Moray West
374	58° 02.400' N	3° 07.170' W	Subsurface	Moray West
375	58° 04.590' N	3° 06.060' W	Subsurface	Moray West
376	58° 05.190' N	3° 04.620' W	Subsurface	Moray West
377	58° 03.696' N	3° 03.921' W	Subsurface	Moray West
378	58° 06.000' N	3° 03.360' W	Subsurface	Moray West
379	58° 05.476' N	3° 01.788' W	Subsurface	Moray West
380	58° 06.068' N	3° 01.788' W	Subsurface	Moray West
381	58° 06.661' N	3° 00.364' W	Subsurface	Moray West
382	58° 06.661' N	2° 58.938' W	Subsurface	Moray West
383	58° 05.476' N	2° 58.939' W	Subsurface	Moray West
384	58° 07.428' N	2° 58.230' W	Subsurface	Moray West
385	58° 09.042' N	2° 57.252' W	Subsurface	Moray West
386	58° 07.254' N	2° 56.084' W	Subsurface	Moray West
387	58° 07.847' N	2° 56.084' W	Subsurface	Moray West
388	58° 10.216' N	2° 56.083' W	Subsurface	Moray West
389	58° 09.474' N	2° 55.716' W	Subsurface	Moray West
390	58° 08.502' N	2° 54.960' W	Subsurface	Moray West
391	58° 07.980' N	2° 53.802' W	Subsurface	Moray West
392	58° 09.786' N	2° 53.418' W	Subsurface	Moray West

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
393	58° 10.218' N	2° 51.888' W	Subsurface	Moray West
49	58° 04.560' N	3° 01.140' W	Subsurface	Moray West
50	58° 06.360' N	2° 57.090' W	Subsurface	Moray West
52	58° 11.100' N	2° 51.300' W	Subsurface	Moray West
159	58° 09.357' N	2° 52.500' W	Subsurface	Moray West
280	58° 01.104' N	3° 09.270' W	Subsurface	Moray West
371	58° 01.920' N	3° 12.540' W	Subsurface	Moray West

4.Upcoming works

1. Cable installation – Offshore Export Cables –October 2023
2. HDD – Installation (Site 5) – October 2023
3. IAC cable installation – March 2024
4. Wind Turbine Generator (WTG) Transition Piece Installation -December 2023- June 2024
5. WTG Installation – April 2024- October 2024

5. Guard Vessels

Kinnaird Marine Limited has been appointed by Moray West to provide guard vessels during the Construction campaign. Apart from times of extreme weather, there will always be at least one guard vessel on station during piling 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.

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

5.1 Guard Vessel–Silver Wave

GV Silver Wave



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8773811	LOA	18m
MMSI NUMBER	235004940	BEAM	7m
CALLSIGN	MCHP9	DRAUGHT	3.5m
FLAG	UK	DATE ON SITE	13/07/2023
CONTACT TEL	01346 518035	LICENCES	

Guard Vessel– Bountiful

GV Bountiful



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8699871	LOA	22m

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

MMSI NUMBER	232004846	BEAM	7m
CALLSIGN	MJLF4	DRAUGHT	3.6m
FLAG	UK	DATE ON SITE	17/06/2023
CONTACT TEL	01346 518035	LICENCES	Marine licences

Guard Vessel- Heather Sprig



TYPE	Guard	OPERATOR	KMS
IMO	8963789	LOA	18.6m
MMSI NUMBER	234091000	BEAM	6.86m
CALLSIGN	MKPJ4	DRAUGHT	2.81m
FLAG	UK	DATE ON SITE	
CONTACT TEL	01346 518035	LICENCES	

Guard Vessel Ability



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8644785	LOA	23.14m
MMSI NUMBER	235014666	BEAM	6.63m

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

CALLSIGN	MDFW3	DRAUGHT	3.2m
FLAG	UK	DATE ON SITE	
CONTACT TEL	01346 518035	LICENCES	Wind Farm, Marine licences

6. General Safety Advice

Please be aware that by virtue of their mode of operation and the equipment deployed, some construction 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 27.

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 West site (see Figure 1) 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>). Static gears deployed within 12 nm should be marked in accordance with The Marking of Creels (Scotland) Order 2020 (<https://www.legislation.gov.uk/ssi/2020/168/made/data.pdf>).

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 27, and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine (Moray West Company Fisheries Liaison Officer). For any non-urgent commercial fishery queries please contact Brown and May Marine or Moray West's Commercial Fisheries Manager. Note that they are only available during standard office hours and may not be able to provide immediate responses. For queries requiring an immediate response please contact either the Moray West Marine Coordinator or an Offshore Fisheries Liaison Officer:

- **Moray West Company Fisheries Liaison Officer (CFLO)**
Alex Winrow-Giffin - Brown and May Marine Ltd.
Email: alex@brownmay.com
Tel: +44 1379 872148 / + 44 7760 160039
- **Moray West Commercial Fisheries Manager**
Iain McMyn
Email: iain.mcmyn@oceanwinds.com
mailto: iain.mcmyn@oceanwinds.com
Tel: +44 7780 191088
- **Offshore Fisheries Liaison Officer**
 Currently deployed onboard Glomar Wave –
 Contact is through MW Offshore Client Rep: clientmoraywest@gmail.com
 Currently deployed onboard
 Contact is through MW Offshore Client Rep:

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MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	09/10/2023
	Ref: WNoO 0036	Rev: 00

Website

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

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

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