



MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	14/08/2023
	Ref: WNoO 0028	Rev: 00

Work Planned for the Period 14th August to 20th August 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.

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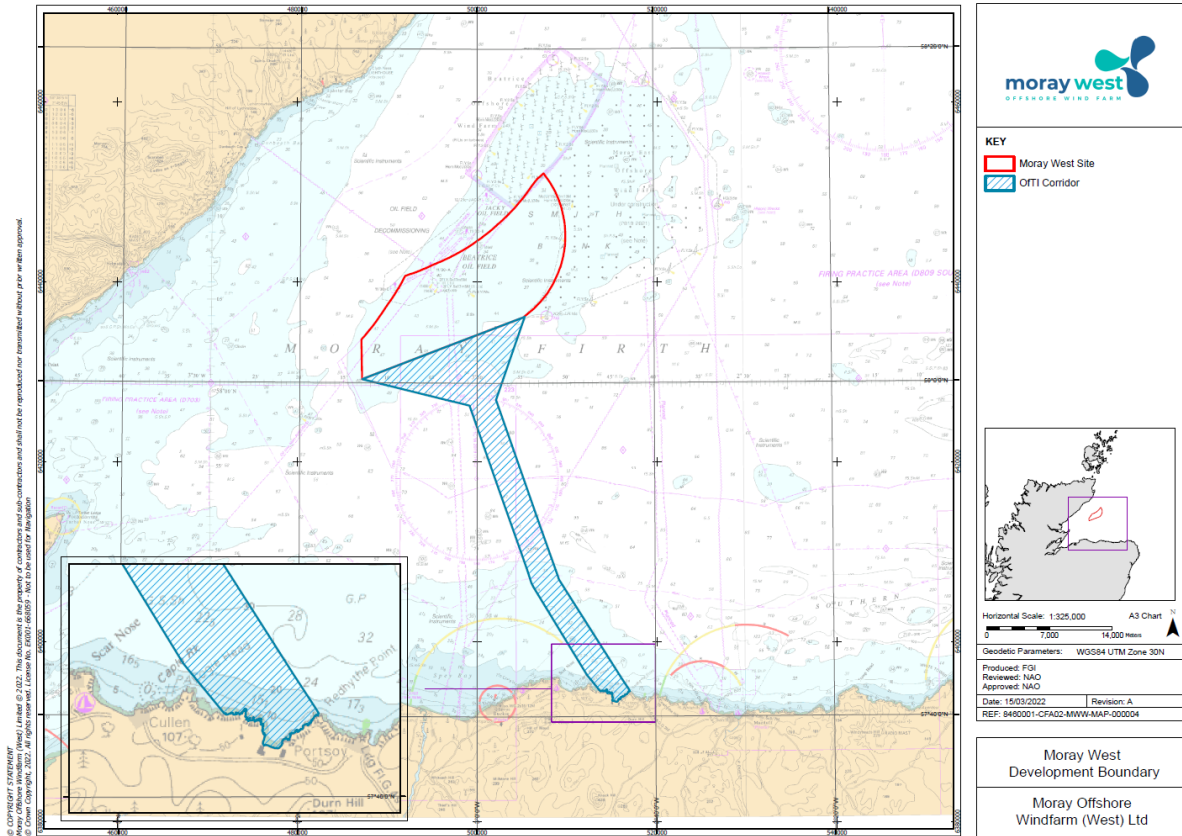


Figure 1 - Moray West Offshore Development Boundary

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:

- UXO ID and DISPOSAL WORKS
- Boulder and Debris Relocation Works
- Scour Protection installation

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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 UXO ID and Disposal Works

The UXO ID works commenced on 25th February 2023. Operations are now focused on UXO disposal, there are 82 targets in total, 81 have already been disposed of. Works are currently ongoing on the wind farm site.

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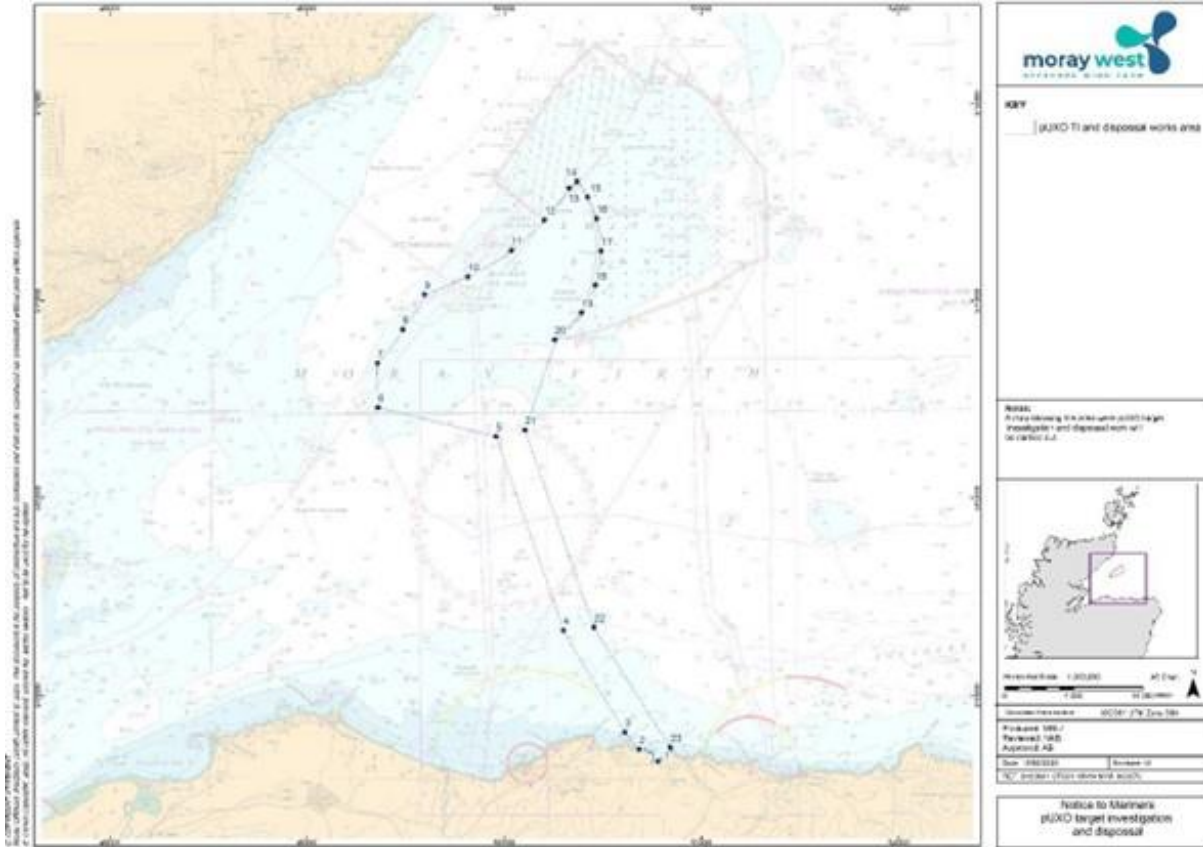


Figure 2– Moray West UXO ID and Disposal Works Area

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Table 1. Coordinates of proposed Moray West UXO ID and Disposal Works Area

Moray West UXO ID and Disposal Works Area- Coordinates				
Site ID	UTM30(N) Easting(m)	UTM30(N) Northing(m)	WGS84 Latitude	WGS84 Longitude
1	515588	6393327	57°40.914'N	2°44.315'W
2	513674	6394542	57°41.573'N	2°46.238'W
3	512241	6396280	57°42.512'N	2°47.675'W
4	505998	6406578	57°48.070'N	2°53.945'W
5	499158	6426229	57°58.663'N	3°0.854'W
6	487208	6429171	58°0.237'N	3°12.986'W
7	487142	6433649	58°2.650'N	3°13.068'W
8	489705	6437067	58°4.496'N	3°10.472'W
9	491909	6440618	58°6.413'N	3°8.237'W
10	496301	6442406	58°7.380'N	3°3.768'W
11	500728	6445086	58°8.825'N	2°59.258'W
12	504067	6448162	58°10.482'N	2°55.851'W
13	506584	6451396	58°12.223'N	2°53.279'W
14	507377	6452075	58°12.588'N	2°52.468'W
15	508444	6450484	58°11.729'N	2°51.382'W
16	509362	6448299	58°10.551'N	2°50.450'W
17	509828	6445014	58°8.780'N	2°49.983'W
18	509247	6441558	58°6.918'N	2°50.583'W
19	507845	6438786	58°5.426'N	2°52.017'W
20	505117	6436035	58°3.946'N	2°54.796'W
21	502103	6426877	57°59.012'N	2°57.866'W
22	509094	6406908	57°48.245'N	2°50.819'W
23	516843	6394746	57°41.676'N	2°43.047'W

The expectation is the works will complete in **early September 2023**, but the exact works duration and completion date will depend on weather and progress of the works.

The scope of work anticipated to be complete this week (weather and progress dependant) includes following activities:

- Target investigation (OWF Site)
- Disposal of single UXO on Export Route

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All works are being performed by the Glomar Wave. The Glomar Wave will operate on DP for this scope of work, during operations there will be a work-class ROV deployed via A-Frame.

2.2 Boulder and Debris Relocation Works

The Boulder and Debris Relocation works commenced on 11th March 2023 with trials and then operations on the export cable routes. Works are currently ongoing on the wind farm site.

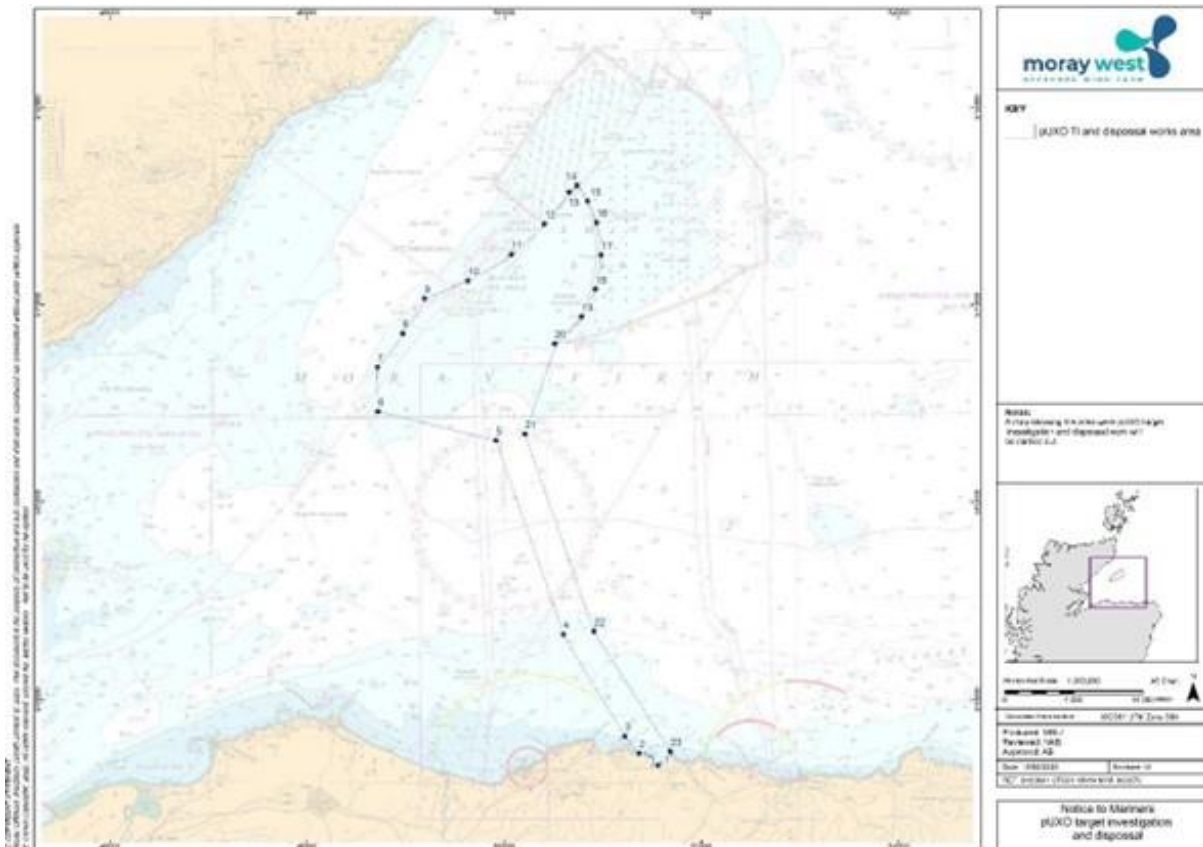


Figure 3– Moray West Boulder and Debris Relocation Works Area

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Table 2. Coordinates of Moray West Boulder and Debris Relocation Works

Moray West Boulder and Debris Relocation Works Area- Coordinates				
SiteID	UTM30(N) Easting(m)	UTM30(N) Northing(m)	WGS84 Latitude	WGS84 Longitude
1	515588	6393327	57°40.914'N	2°44.315'W
2	513674	6394542	57°41.573'N	2°46.238'W
3	512241	6396280	57°42.512'N	2°47.675'W
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11	500728	6445086	58°8.825'N	2°59.258'W
12	504067	6448162	58°10.482'N	2°55.851'W
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16	509362	6448299	58°10.551'N	2°50.450'W
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20	505117	6436035	58°3.946'N	2°54.796'W
21	502103	6426877	57°59.012'N	2°57.866'W
22	509094	6406908	57°48.245'N	2°50.819'W
23	516843	6394746	57°41.676'N	2°43.047'W

Following return the expectation is the works will complete in **at the end of August 2023**, but the exact works duration and completion date will depend on weather and progress of the works.

The scope of work anticipated to be remaining completed (weather and progress dependant) includes the following activities:

1. Relocation works (OWF Site)
2. Relocation works (Export Route)

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All works are being performed by the Olympic Electra. The vessel will operate on DP for this scope of work, during operations there will be a specialist ROV-controlled grab deployed via A-Frame.

2.3 PAM Deployments

The University of Aberdeen intends to install 49 moorings and equipment within the Beatrice, Moray East, Moray West and Caledonia Windfarm areas, at the locations listed in Table 1 and illustrated in Figure . The moorings will remain in place for approximately 6 months and will support acoustic loggers that record echolocation clicks of dolphins and porpoises and broadband sound recorders. All are subsurface moorings that extend no more than 6 m vertically from the seabed (see Figure 2). The moorings will not be surface marked.

All installation works will be carried out by Moray First Marine Ltd., using MV “Waterfall”. These works are expected to commence between the **15th and 30th August 2023** and the total duration of the installation campaign is not expected to exceed **10 days**, subject to weather. The order of deployments will be dependent on weather and tidal conditions.

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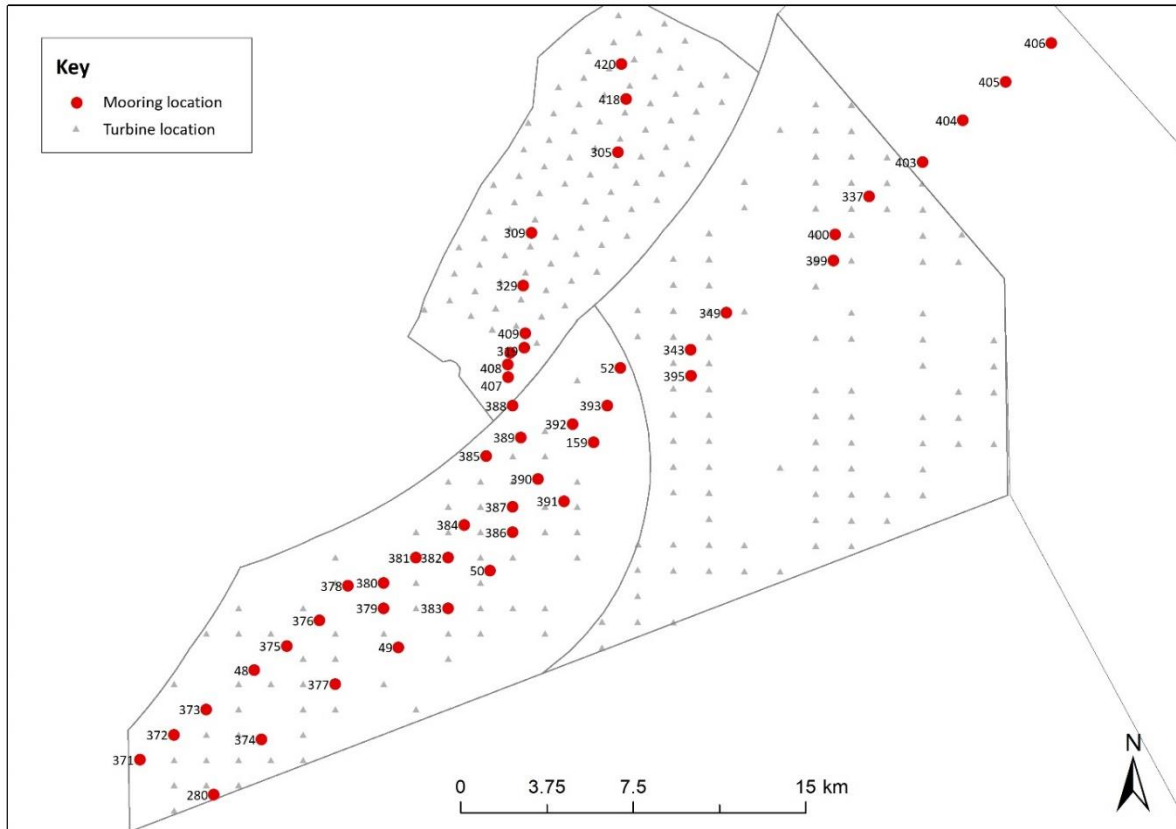


Figure 1 Mooring locations (red dots).

Table 1 Proposed mooring installations

Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
305	58° 16.150' N	2° 51.394' W	Subsurface	Beatrice
309	58° 14.267' N	2° 55.238' W	Subsurface	Beatrice
319	58° 11.577' N	2° 55.562' W	Subsurface	Beatrice
320	58° 11.453' N	2° 56.181' W	Subsurface	Beatrice
329	58° 13.031' N	2° 55.596' W	Subsurface	Beatrice
407	58° 10.882' N	2° 56.280' W	Subsurface	Beatrice

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Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
408	58° 11.184' N	2° 56.286' W	Subsurface	Beatrice
409	58° 11.910' N	2° 55.515' W	Subsurface	Beatrice
418	58° 17.392' N	2° 51.018' W	Subsurface	Beatrice
420	58° 18.216' N	2° 51.220' W	Subsurface	Beatrice
403	58° 15.888' N	2° 37.860' W	Subsurface	Caledonia
404	58° 16.860' N	2° 36.060' W	Subsurface	Caledonia
405	58° 17.760' N	2° 34.140' W	Subsurface	Caledonia
406	58° 18.660' N	2° 32.100' W	Subsurface	Caledonia
337	58° 15.095' N	2° 40.235' W	Subsurface	Moray East
343	58° 11.520' N	2° 48.180' W	Subsurface	Moray East
349	58° 12.380' N	2° 46.590' W	Subsurface	Moray East
395	58° 10.908' N	2° 48.176' W	Subsurface	Moray East
399	58° 13.597' N	2° 41.838' W	Subsurface	Moray East
400	58° 14.205' N	2° 41.760' W	Subsurface	Moray East
48	58° 04.022' N	3° 07.497' 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

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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

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Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
393	58° 10.218' N	2° 51.888' W	Subsurface	Moray West

Waterfall	
General Description and Dimensions:	Workboat, UK MCA Cat.2, 60nm from safe haven LOA 16m, Beam 6m.
Call sign:	2CBT4
MMSI:	235071392
On Board Contact:	Bill Ruck, 07775 802963
E-mail:	bill@moraymarine.com



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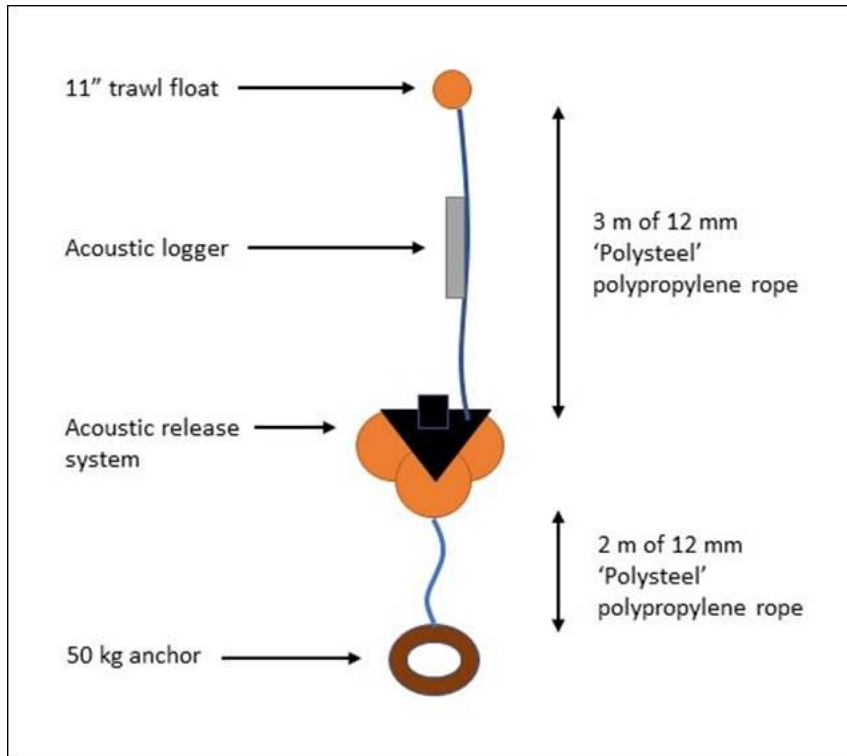


Figure 2 Schematic of subsurface mooring with acoustic logger or sound recorder

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

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And a Weather Data Buoy in position

Latitude : 57 41.2922N, Longitude: 002 43.8006W



3.2 Moray West Construction Markers

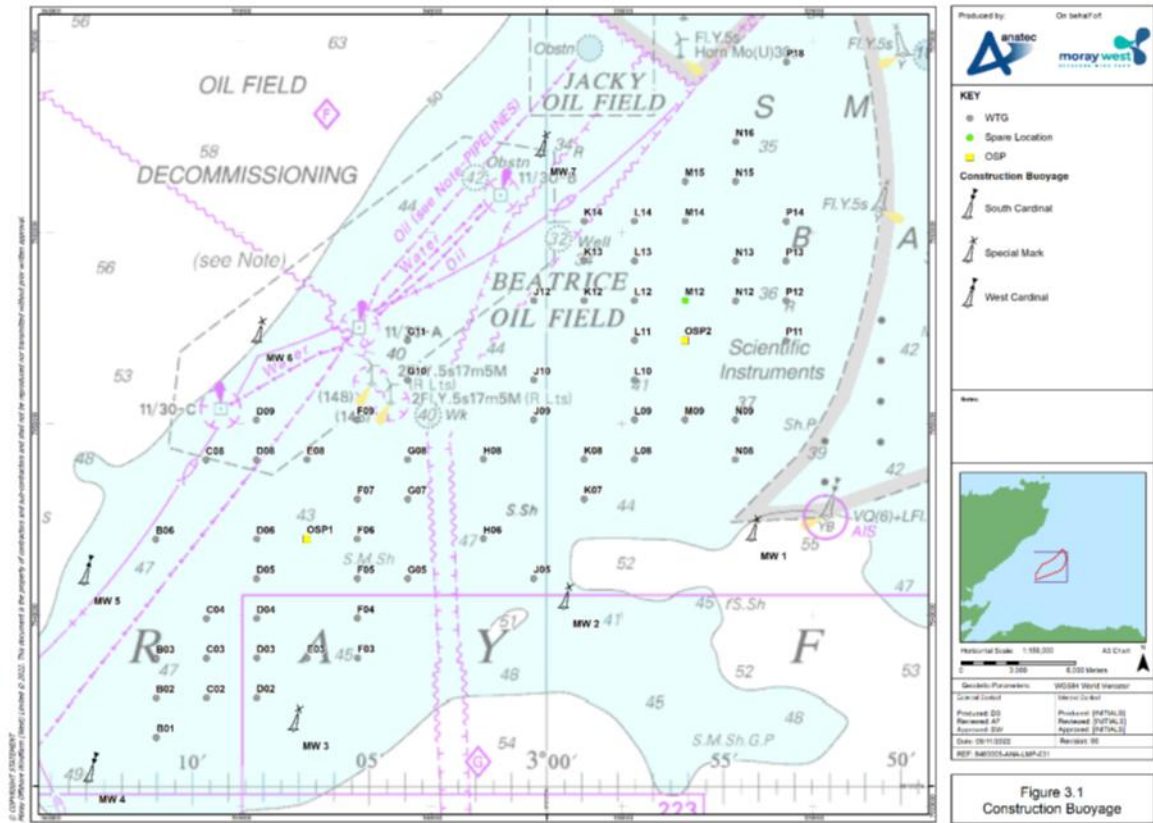
Moray West has completed the deployment of seven construction buoys around the Moray West site. The marker buoys will remain in place until after construction of the Moray West Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the table below.

Table 7 – Marker Buoy Locations

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Buoy	ID	Location	Light and Top Mark Specification
Special Mark	MW1	58° 03.681' 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° 08.029' 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

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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

4 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

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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

4.1 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

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

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Guard Vessel Ability



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8644785	LOA	23.14m
MMSI NUMBER	235014666	BEAM	6.63m
CALLSIGN	MDFW3	DRAUGHT	3.2m
FLAG	UK	DATE ON SITE	
CONTACT TEL	01346 518035	LICENCES	Wind Farm, OfTI, OSP Marine licences

5.Upcoming works

1. Monopile foundation installation – August 2023- March 2024
2. Cable installation – Offshore Export Cables –September 2023
3. Wind Turbine Generator (WTG) Transition Piece Installation -December 2023- June 2024
4. WTG Installation – April 2024- October 2024

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

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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.

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:](mailto:iain.mcmyn@oceanwinds.com)Tel: +44 7780 191088



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- **Offshore Fisheries Liaison Officer**

Currently deployed onboard Glomar Wave –TBC

Contact is through MW Offshore Client Rep: clientmoraywest@gmail.com

Currently deployed onboard Olympic Electra – Michael Sangster

Contact is through MW Offshore Client Rep: ocr.olympic.electra@gmail.com

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.

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.