

Project Title	Seagreen Wind Energy Ltd
Document Reference Number	LF000009-MIP-MA-MAN-NOT-0001

Seagreen Offshore Wind Farm.

Weekly Notice of Operations 40/2021

Issue Date – 04th October 2021.

Notice of Operations on Seagreen Offshore Wind Farm.

Work planned for the period 04-10-2021 to 10-10-2021.

Construction activities commenced on Seagreen Offshore Wind Farm on Thursday 17th December with works at the export cable landfall site. This notice will be updated weekly giving information of the progress and resources involved in the construction of the windfarm. The intention is to give notice of the activities involved in the construction phase of the project. Should anyone have any questions regarding construction operations we kindly ask that you put them forward well in advance.

The Seagreen Offshore Wind Farm is located in the outer Firth of Forth and Firth of Tay region of the North Sea. The site is situated approximately 17.5 nautical miles East-southeast of the Port of Montrose where the project Marine Coordination Centre will be located during the construction and operational phases. The first phase of the development will consist of 114 suction bucket foundation structures, with associated 114 10MW offshore wind turbine generators, 1 HVAC offshore substation platform, associated inter array and export cabling. The generated power will be transmitted to the National Grid via 3 subsea transmission cables making landfall at Carnoustie, Angus, to the Southwest of the development site. Grid connection will

be achieved at the Tealing onshore substation. The second phase of the project will consist of 36 piled foundation structures, with associated 36 Wind Turbine Generators, associated inter array and export cabling and one additional 1 HVAC offshore substation platform. The phase 2 transmission cable is proposed to make landfall at Cockenzie, East Lothian (subject to appropriate licensing).

The Seagreen development site is highlighted below in red, the export cable corridor is highlighted in yellow.

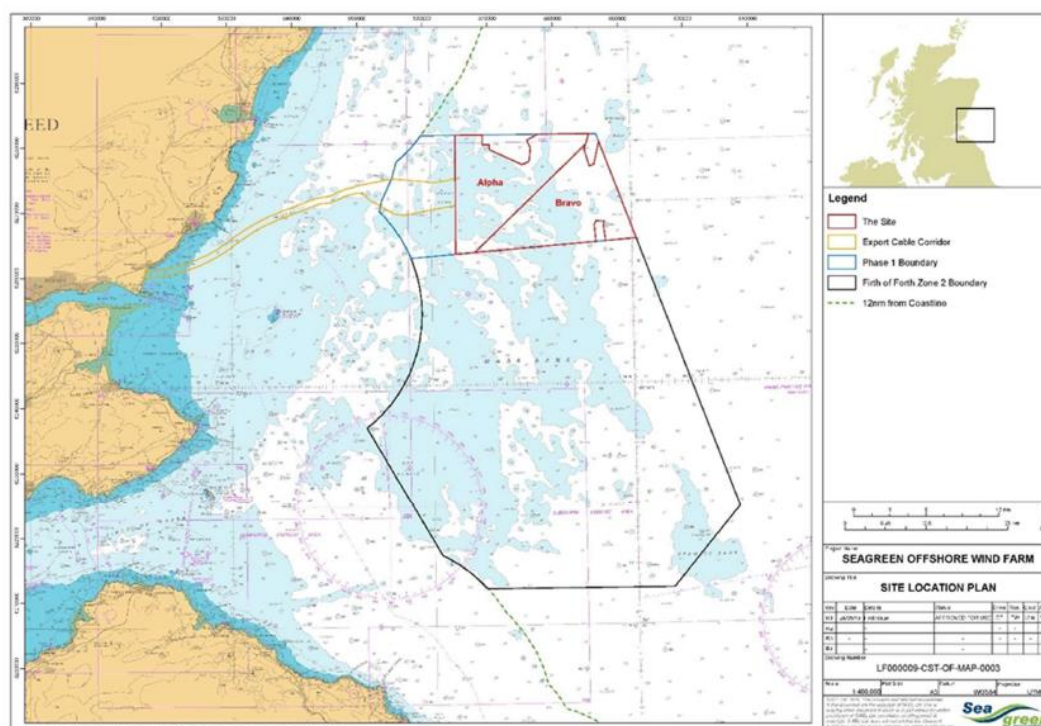


Fig 1 – Seagreen offshore wind farm location and export cable corridor.

1. Contact details for Marine Coordination

The following contact can provide more information if required.

Telephone Number (24/7 Operations)	+44 (0) 333 344 5255
Email for Marine Coordinator	seagreenmarinecoordination@sse.com
Address	Seagreen Wind Energy Ltd, Inchbraoch House Montrose Port Authority, South Quay Ferryden, Montrose, Angus DD10 9SL

2. Ongoing Operations

2.1 Export Cable Landfall works.

Export cable nearshore protection and diving support operations will continue this week. Works continue on the reinstatement of Carnoustie beach revetement and the trenching of the three export cable protection pipes. Further details are below in section 2.2. The landfall works area is shown below in Fig 2.



Fig 2 – Landfall works area located at Carnoustie Barry Golf Links.

2.2 Nearshore export cable protection and diving works.

On behalf of Seagreen Wind Energy Ltd, Nexans Norway Dykkerteknikk AS will deliver nearshore protection services and diving assistance in preparation for the pull-in of three export cables at the Carnoustie export cable landfall site.

Works continue at the export cable landfall site at Carnoustie beach as shown above in fig 2. A 272m self-submersible cable protection pipe has been connected to each of the 3 export cable ducts. The 3 self-submersible cable protection pipes will now be trenching awaiting export cable pull-in at a date to be confirmed.

Cable trenching and diving operations will take place from the MPV Sophie.

Six temporary rock bag moorings have been placed on the seabed. They will remain in place and be used during the export cable pull-in. These temporary moorings will be surface marked by day-glo pellet buoys. The locations and coordinates of these temporary moorings are shown below in Fig 3 and Table 1.

Vessel Name – MPV Sophie	
General Description and Dimensions:	Multi-Purpose vessel. 14.9m x 7.0m x 1.0m
Call Sign:	LK7943
MMSI:	258003500
Direct Bridge/ Masters Number	+47 928 35 222
Onshore Representative:	anders@dykkerteknikk.no ; halvor@dykkerteknikk.no



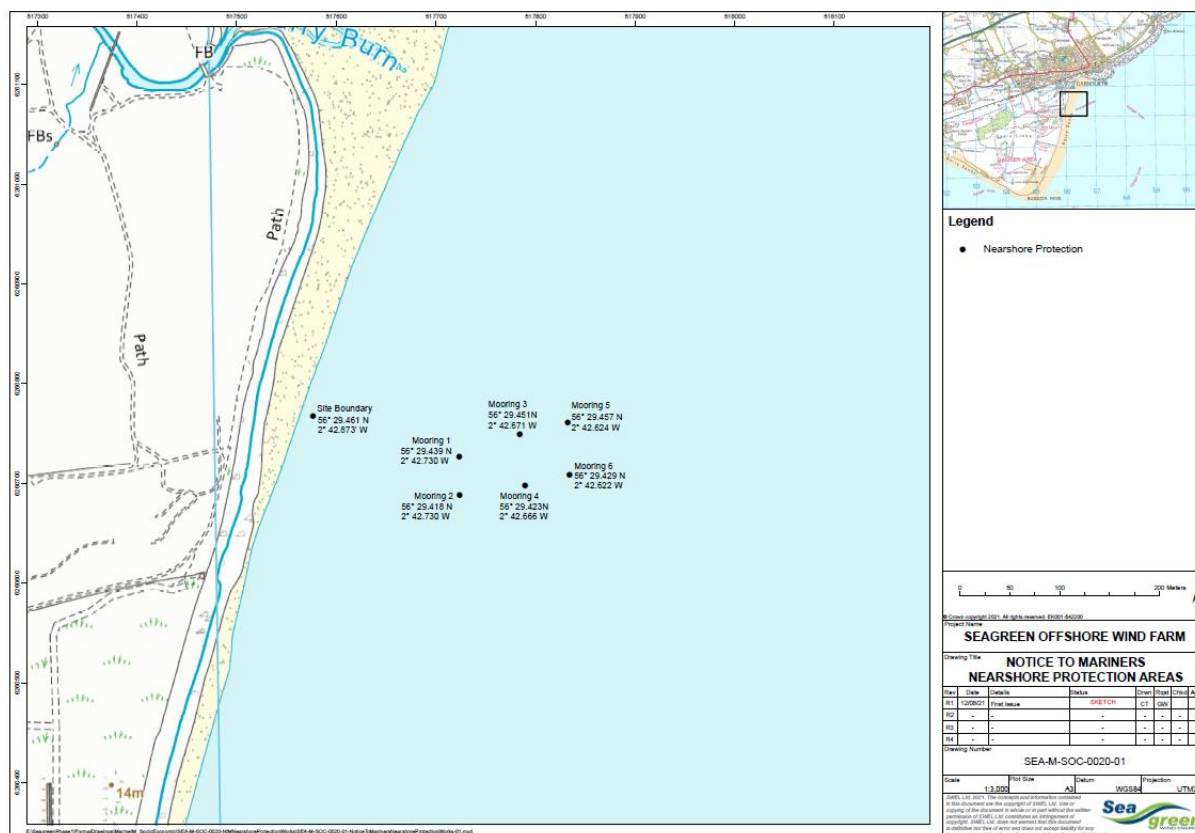


Fig 3

ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Site Boundary	56° 29.461' N	2° 42.873' W
Mooring 1	56° 29.439' N	2° 42.730' W
Mooring 2	56° 29.418' N	2° 42.730' W
Mooring 3	56° 29.451' N	2° 42.671' W
Mooring 4	56° 29.423' N	2° 42.666' W
Mooring 5	56° 29.457' N	2° 42.624' W
Mooring 6	56° 29.429' N	2° 42.622' W

Table 1 – Temporary mooring coordinates.

3. Pre-construction Unexploded Ordnance clearance works.

3.1 Potential Unexploded Ordnance Identification Survey.

A Potential Unexploded Ordnance (pUXO) identification survey will take place within the Seagreen Offshore Wind Farm site boundary. The vessel, Glomar Worker will utilise a ROV mounted magnetometer and video camera to conduct the survey of numerous targets to identify any possible UXO risk. Wind Turbine

Generator positions, Inter Array Cable routes and 1 Offshore Sub-station location within the Seagreen site boundary will be surveyed.

Survey works are expected to be concluded by the end of September 21 however this period may be extended due to weather conditions.

The Seagreen site boundary is shown in Fig 1, coordinates are shown below in table 2. Details of the survey vessel, Glomar Worker are shown below.

ID	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
01	56° 40.631' N	1° 43.829' W
02	56° 40.606' N	1° 36.151' W
03	56° 39.317' N	1° 36.884' W
04	56° 37.913' N	1° 36.151' W
05	56° 39.923' N	1° 34.627' W
06	56° 31.903' N	1° 29.311' W
07	56° 31.724' N	1° 33.882' W
08	56° 32.983' N	1° 34.195' W
09	56° 33.051' N	1° 35.583' W
10	56° 31.666' N	1° 35.352' W
11	56° 30.803' N	1° 56.378' W
12	56° 40.653' N	1° 56.226' W
13	56° 40.648' N	1° 52.170' W
14	56° 39.836' N	1° 51.101' W
15	56° 38.138' N	1° 46.249' W
16	56° 38.383' N	1° 45.181' W
17	56° 40.157' N	1° 45.487' W

Table 2 – Site Boundary coordinates.

Vessel Name – Glomar Worker	
General Description and Dimensions:	Survey vessel. 60.0m LOA, 15.6m beam, 4.5m draught
Call Sign:	3EKK8
MMSI:	352110000

Satellite communications details	+87 0773281351 & +31 852088024
Direct Bridge/ Masters Number	+31 645027717
Onshore Representative:	Alexandru Lepadatu, Alexandru.Lepadatu@subsea7.com +31(0)61 057 48 75
Onboard Survey rep.	Alice Bamkin +44 (0)7845 554353



3.2 Unexploded Ordnance Disposal

An unexploded ordnance disposal campaign will take place within the Seagreen Wind Farm site boundary, coordinates of the items are listed below in table 3. The survey vessel Glomar Worker has embarked an explosive ordnance disposal team and disposal works are ongoing weather conditions permitting.

Depending on the nature of the ordnance differing disposal methods may be employed.

Three noise monitors will be placed on the seabed as part of the disposal process, coordinates of these monitors are shown in fig 4 and listed in table 4.

Any required detonations will take place during daylight hours, the Glomar Worker will commence hourly warning broadcasts four hours prior to any detonations, a final broadcast will be made 10 minutes before execution.

Glomar Worker will monitor the area for the safety of other vessels, it is requested that all vessels give the operations in excess of 1 nautical mile clearance during disposal operations.

Unexploded ordnance	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
Confirmed UXO	56° 35.332' N	1° 34.204' W
Confirmed UXO	56° 35.417' N	1° 34.119' W
Confirmed UXO	56° 31.262' N	1° 53.721' W

Table 3 – UXO coordinates

Seabed noise monitors.	Latitude (DDM WGS 84)	Longitude (DDM WGS 84)
G-00167 and G-00170 Ref 1	56° 37.536' N	1° 39.165' W
G-00167 and G-00170 Ref 2	56° 35.894' N	1° 35.288' W
G-00167 and G-00170 Ref 4	56° 35.538' N	1° 34.550' W
G-00577 Ref 1	56° 36.722' N	1° 36.445' W
G-00577 Ref 2	56° 34.693' N	1° 33.330' W
G-00577 Ref 3	56° 34.240' N	1° 32.794' W

Table 4 – Noise monitor coordinates

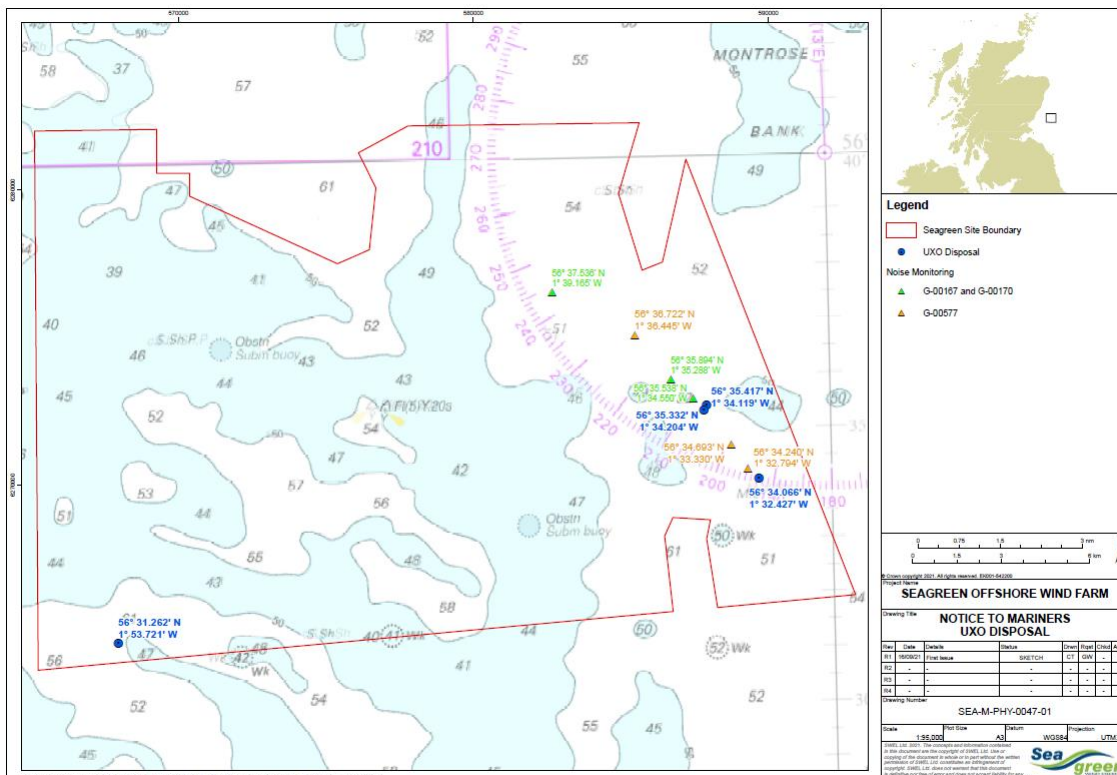


Fig 4 – UXO & noise monitor locations.

3.4 Boulder removal campaign

A boulder removal campaign will take place within the Seagreen Offshore Windfarm site boundary. The boulder removal vessel MMA Pinnacle is equipped with a ROV and integrated tine grab tool. The vessel will relocate boulders which are considered a hazard from the inter array cable routes and areas surrounding the wind turbine generator locations.

The works commenced on 30th August, a completion date will be promulgated when known.


Details of the MMA Pinnacle are shown below.

Vessel Name – MMA Pinnacle	
General Description and Dimensions:	Multi Purpose Supply Vessel with DP 2 capabilities
Call Sign:	9WNM1
MMSI:	533130779
Satellite communications details	+65 3163 2965
Direct Bridge/ Masters Number	+65 901 80775
Onshore Representative:	Guy Butler
On-board Survey rep.	Barry Sutherland



4. Installation of suction bucket caisson jacket foundations.

Installation of the first of 114 suction bucket caisson foundation jackets are expected to commence on or around the 6th of October utilising the Heavy Lift Vessel Saipem 7000. The installation is expected to continue until September 2022. The jackets will be towed from Nigg, in the Moray Firth using tugs and barges. The Tug Nicobar will assist the Saipem 7000 with barge mooring operations. There will be various tugs utilised in towing the barges, details of which are given below including the Saipem 7000.

Vessel Name – Saipem 7000	
General Description and Dimensions:	Heavy lift vessel: LOA 129.9 x 87m Beam
Call Sign:	C6NOS
MMSI:	309461000
Satellite communications details	Inmarsat 00870773163946 V-Sat 00390252027520
Direct Bridge/ Masters Number	S7000.Captain@Saipem.com S7000.Marine@saipem.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – Tug Nicobar	
General Description and Dimensions:	Tug: LOA 70.9 x 16.0m Beam
Call Sign:	ORRT
MMSI:	205684000
Satellite communications details	Sat +870 773 308935 Mobile +31 621 927 591
Direct Bridge/ Masters Number	nicobar-bridge@boskalis.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – EDT Hercules

General Description and Dimensions:	Grouting Vessel: LOA 88.8m x 19.6m Beam
Call Sign:	5BAM4
MMSI:	210776000
Satellite communications details	Mobile +44 2037 699906
Direct Bridge/ Masters Number	hercules.bridge@edtoffshore.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02



Vessel Name – Tug Eraclea


General Description and Dimensions:	Tug: LOA 50.0m x 15.0m Beam
Call Sign:	IITX2
MMSI:	247278500
Satellite communications details	Sat +870 773 130947 Mobile +39 345 280 8217
Direct Bridge/ Masters Number	eraclea@augustea.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02




Vessel Name – AHT Ievoli Blue	
General Description and Dimensions:	Tug: LOA 70.0m x 16.0m Beam
Call Sign:	IBYK
MMSI:	247279900
Satellite communications details	Sat +87 077 3913315 Mobile +39 348 096 0206
Direct Bridge/ Masters Number	ievoliblu@gmail.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – Tug Carlo Martello	
General Description and Dimensions:	Tug: LOA 55.4m x 15.5m Beam
Call Sign:	IBCO
MMSI:	247153600
Satellite communications details	Sat +870 7731 30214 Mobile +39 335 806 9554
Direct Bridge/ Masters Number	carlo.martello@augustea.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – Tug Kamarina	
General Description and Dimensions:	Tug: LOA 55.4m x 15.5m Beam
Call Sign:	IITW2
MMSI:	247278400
Satellite communications details	Sat +870 773 130505 Mobile +39 345 281 1846
Direct Bridge/ Masters Number	kamarina@augustea.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Barge – Wagenborg 9 & 11, CC Atlantique, AMT Crusader, AMT Challenger,	
General Description and Dimensions:	Barge: LOA 122m x 36.5m Beam
Call Sign:	n/a
MMSI:	n/a
Satellite communications details	n/a
Direct Bridge/ Masters Number	n/a
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – Forties Sentinel	
General Description and Dimensions:	Supply Vessel: LOA 61m x 15m
Call Sign:	2IGM9
MMSI:	235109554
Satellite communications details	+31629725402
Direct Bridge/ Masters Number	forties.sentinel@sentinel-marine.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

Vessel Name – Sea Gull	
General Description and Dimensions:	Supply Vessel: LOA 88.8m x 20m
Call Sign:	LAGK8
MMSI:	257504000
Satellite communications details	+31 (0)62 972 54 02
Direct Bridge/ Masters Number	Frits.vanDorst@subsea7.com
Onshore Representative:	Frits Van Dorst Frits.vanDorst@subsea7.com +31 (0)62 972 54 02
	

5. Guard Vessel Deployment.

In line with foundation installation activities commencing Seaway 7 will deploy a site Guard Vessel. The Guard vessel will make six hourly VHF radio broadcasts containing information regarding the Seagreen development including installation activity, safety zone information and site demarcation buoyage information. The Guard Vessels' shall be relieved regularly, the first vessel to arrive will be Renown, FR246, further details are below.

Details of future Guard Vessels will be promulgated in this notice.

Vessel Name – GV Renown FR246	
General Description and Dimensions:	Fishing vessel. 14.9m x 7.0m x 1.0m
Call Sign:	GJLQ
MMSI:	235001860
Direct Bridge/ Masters Number	+44 7542 772777 renownfr246@hotmail.co.uk
Onshore Representative:	Alastair Macdonald Alastair.Macdonald@Subsea7.com



6. Fishing Industry Liaison

During the installation phase of the Seagreen project an Offshore Fishing Liaison Officer (OFLO) will be deployed on selected construction and installation vessels. These liaison officers will act as the point of communication with fishing interests at sea, directly and through consultation with fishing industry

representatives. The OFLO will also liaise with the Seagreen Fisheries Liaison Officer, Brown & May. Contact details for the OFLO currently deployed within the site is below, this table will be regularly updated.

Saipem 7000 OFLO	
Stanley Morgan	Stanmorgan1@icloud.com . +44 (0)7780682520

7. Website

The official website for Seagreen Offshore Wind Farm can be found at

<https://seagreenwindenergy.com>

This contains all Seagreen Weekly Notices of Operations and Notices to Mariners, together with a large amount of general information about the project.

There is also a Twitter feed at [@seagreenwind](https://twitter.com/seagreenwind)

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8. Seagreen weekly vessel report.

Seagreen Offshore Windfarm
Vessels & Operators

Insert date 04-10-21

Reference to Marine Licence
Conditions 3.1.2 (OWF Alpha
and Bravo ML), 3.1.2 (OTA ML)
and 3.1.2 (Open Cut at Landfall
ML)



Vessel Data Matrix OWF/OTA/Open Cut at Landfall

No Re	Vessel Picture	Vessel Name / Fl	Type / Function	Operator	Contact / contact details	Call sign / MMSI / IMO	LOA (m) Beam (m) Draft (m)	Date on Site	Marine Licence(s) applicable
1		MPY Sophie	Multi Purpose Vessel	Nexans AS	Per-Kristian Pederson Nexans Senior Project Engineer +47 476 40 021 Per- Kristian.Pedersen@nexans.com	LK7943 25800350	14.9m x 7m x 1m	20/08/2021	OTA ML & Open Cut at Landfall ML
2		Saipem 7000	Heavy Lift Vessel	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	C6N05 309461000	175m x 87m	01/10/2021	OTA ML & Open Cut at Landfall ML
3		AHT Nicobar	Tug	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	ORRT 205684000	71m x 16m	01/10/2021	OTA ML & Open Cut at Landfall ML
4		AHT Ievoli Blue	Tug	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	IBYK 247279900	70m x 15.1	01/10/2021	OTA ML & Open Cut at Landfall ML
5		AHT Eraclea	Tug	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	IITX2 247278500	50m x 15m	01/10/2021	OTA ML & Open Cut at Landfall ML
6		AHT Carlo Martello	Tug	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	IBCO 247266600	55.4m x 15.5	01/10/2021	OTA ML & Open Cut at Landfall ML
7		AHT Kamarina	Tug	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	IITW2 247278400	50m x 15m	01/10/2021	OTA ML & Open Cut at Landfall ML
8		GY Renown	Guard Vessel	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	GJLQ 235001860	14.9m x 7m	01/10/2021	OTA ML & Open Cut at Landfall ML
9		Sea Gull	Supply Vessel	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	LAGK8 257504000	88.8m x 20m	01/10/2021	OTA ML & Open Cut at Landfall ML
10		Forties Sentinel	Supply Vessel	Seaway7	Frits Van-Dorst Project Engineer +31 62972 5402	2IGM9 235109554	61m x 15m	01/10/2021	OTA ML & Open Cut at Landfall ML