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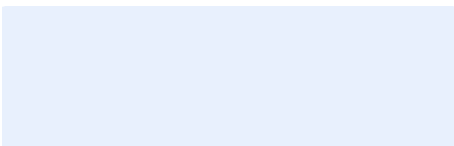
# Notice to Mariners – Offshore

Fugro Pioneer, Fugro Venturer and Despina

200054-NtM Offshore (03) | 25 March 2020

Final For Issue

**Sofia Offshore Wind Farm Limited**



# Document Control

## Document Information

Project Title	Sofia Offshore Wind Farm Investigation 2020
Document Title	Notice to Mariners – Offshore
Avalon No.	TBA
Fugro Project No.	200054
Fugro Document No.	200054-NtM Offshore
Issue Number	03
Issue Status	Final For Issue
Document Owner	Sally Dalrymple
Entity	FGBML

## Client Information

Client	Sofia Offshore Wind Farm Limited
Client Address	Trigonos, Windmill Hill Business Park, Swindon, SN5 6PB
Client Contact	Mike Gould
Client Document No.	003443917-01 Notice to Mariners - Offshore Site Investigation

## Revision History

Issue	Date	Status	Comments on Content	Prepared By	Checked By	Approved By
00	12 February 2020	For Review	Awaiting client comments	SD	SW/MS	SOWFL
01	14 February 2020	Final for Issue	Updated in line with comments	SD	SW	SOWFL
02	3 March 2020	Final for issue	Updated in line with comments	SW	SD	SOWFL
03	25 March 2020	Final for issue		SD	SW	SOWFL

## Project Team

Initials	Name	Role
SD	Sally Dalrymple	Project Manager
SW	Sydney Waters	Assistant Project Manager
MS	Mark Schreiber	Vessel Manager
KK	Kurt Kleppe	Vessel Manager
WR	Ward Reid	Vessel Manager

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# 1. Introduction

Sofia Offshore Wind Farm Limited (SOWFL) has contracted Fugro GM Marine Limited (Fugro) to carry out a geophysical and geotechnical site investigation off the north-east coast of the UK for the proposed Sofia Offshore Wind Farm (SOWF) site.

The Sofia Offshore Wind Farm (SOWF) site is located in the North Sea located on the Dogger Bank, 165 km off the north-east coast of the UK in water depths between 21 m and 35 m Lowest Astronomical Tide (LAT).

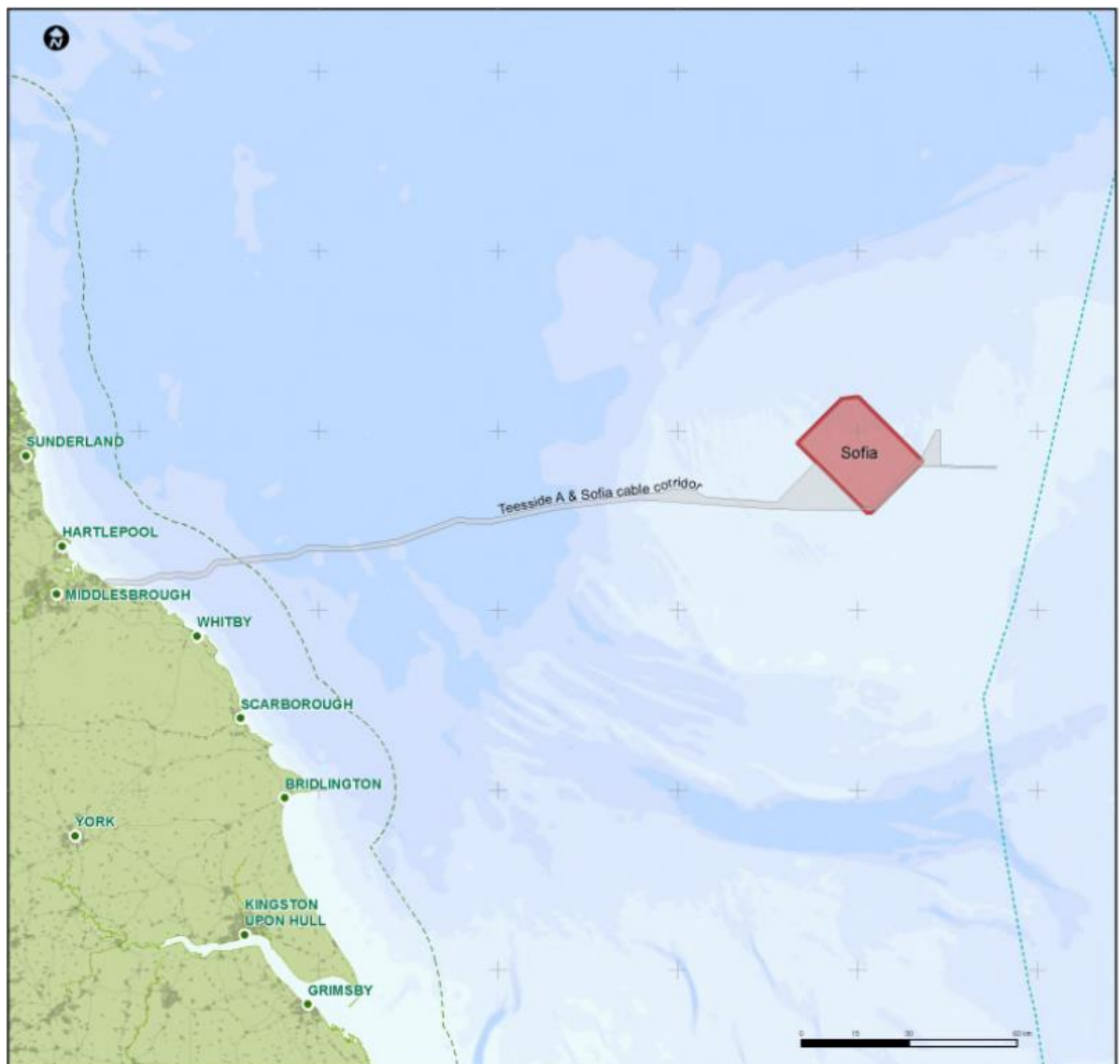


Figure 1: Project Location

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## 2. Area of Operations – Export Cable Corridor

The accompanying drawings (003525018-02 - NtM SOWF Site Survey Export Cable Route Geotechnical) in Appendix A indicates the areas within which the export cable corridor survey will be carried out. The coordinates of the survey area, including buffers, are also provided below:

Table 1: Export Route Survey Area Buffer Zone Coordinates

	Easting	Northing	Lat_DDM	Long_DDM
1	54° 35,738' N	0° 51,613' W	250652.5304	6056647.046
2	54° 35,687' N	0° 55,091' W	246904.758	6056758.366
3	54° 36,000' N	0° 55,121' W	246905.3081	6057340.265
4	54° 35,953' N	0° 57,451' W	244393.2056	6057394.889
5	54° 36,868' N	0° 57,499' W	244437.3299	6059093.677
6	54° 36,920' N	0° 55,174' W	246942.6787	6059049.802
7	54° 37,125' N	0° 55,195' W	246941.8647	6059430.045
8	54° 37,193' N	0° 52,015' W	250368.9503	6059367.137
9	54° 37,732' N	0° 50,182' W	252393.9473	6060257.873
10	54° 37,752' N	0° 50,123' W	252459.6427	6060290.422
11	54° 37,607' N	0° 50,034' W	252541.291	6060017.197
12	54° 38,148' N	0° 47,440' W	255383.9454	6060867.845
13	54° 38,479' N	0° 42,719' W	260492.1381	6061210.096
14	54° 38,483' N	0° 38,347' W	265191.5981	6060971.607
15	54° 38,893' N	0° 35,934' W	267824.3147	6061597.423
16	54° 40,608' N	0° 33,328' W	270785.9461	6064633.106
17	54° 42,522' N	0° 12,990' W	292792.9749	6067126.147
18	54° 43,374' N	0° 9,717' W	296377.3657	6068545.033
19	54° 43,555' N	0° 7,857' W	298388.3816	6068791.598
20	54° 43,633' N	0° 3,969' W	302565.3575	6068751.245
21	54° 43,654' N	0° 1,206' E	308119.4902	6068550.573
22	54° 43,911' N	0° 2,641' E	309679.0383	6068963.206
23	54° 45,123' N	0° 13,625' E	321552.0312	6070727.324
24	54° 47,644' N	0° 24,169' E	333031.3901	6074968.143
25	54° 48,455' N	0° 28,704' E	337943.2989	6076293.983
26	54° 48,706' N	0° 37,802' E	347701.9436	6076419.362
27	54° 49,074' N	0° 40,397' E	350503.8793	6077008.749
28	54° 50,968' N	0° 54,719' E	365942.9062	6080038.752
29	54° 52,531' N	1° 11,121' E	383566.8226	6082447.232
30	54° 52,754' N	1° 12,635' E	385196.8564	6082819.519
31	54° 53,130' N	1° 20,918' E	394069.2545	6083298.312
32	54° 53,470' N	1° 27,244' E	400845.36	6083775.883
33	54° 53,363' N	1° 28,842' E	402548.9933	6083539.494
34	54° 52,647' N	1° 32,908' E	406868.4621	6082119.375
35	54° 52,498' N	1° 36,085' E	410259.7805	6081774.774
36	54° 52,544' N	1° 42,053' E	416643.2068	6081736.212
37	54° 52,235' N	1° 51,812' E	427069.5895	6080981.381
38	55° 0,936' N	2° 14,694' E	451716.9608	6096788.088
39	54° 59,417' N	2° 16,367' E	453469.9524	6093952.86
40	54° 51,103' N	1° 53,418' E	428753.8798	6078854.208

41	54° 50,762' N	1° 51,369' E	426551.2272	6078257.128
42	54° 51,182' N	1° 50,961' E	426127.6544	6079043.328
43	54° 51,466' N	1° 42,025' E	416575.9042	6079736.825
44	54° 51,419' N	1° 36,022' E	410152.609	6079775.105
45	54° 51,582' N	1° 32,546' E	406439.9215	6080152.022
46	54° 52,303' N	1° 28,459' E	402097.4699	6081582.386
47	54° 52,386' N	1° 27,213' E	400768.2786	6081765.723
48	54° 52,052' N	1° 21,062' E	394176.0498	6081296.047
49	54° 51,686' N	1° 12,942' E	385474.3923	6080831.367
50	54° 51,424' N	1° 11,186' E	383583.0442	6080393.393
51	54° 49,779' N	0° 54,085' E	365198.3782	6077854.57
52	54° 48,026' N	0° 40,835' E	350908.9422	6075050.185
53	54° 47,596' N	0° 37,811' E	347642.1911	6074361.873
54	54° 47,387' N	0° 29,199' E	338402.5875	6074296.314
55	54° 46,658' N	0° 25,088' E	333948.8795	6073104.004
56	54° 44,075' N	0° 14,456' E	322366.4715	6068749.812
57	54° 42,865' N	0° 3,099' E	310089.3989	6067002.07
58	54° 42,567' N	0° 1,444' E	308289.4162	6066525.864
59	54° 42,555' N	0° 3,923' W	302528.1708	6066751.519
60	54° 42,479' N	0° 7,681' W	298487.5338	6066788.687
61	54° 42,334' N	0° 9,172' W	296875.8426	6066590.943
62	54° 41,379' N	0° 12,841' W	292856.2971	6064999.385
63	54° 39,494' N	0° 32,529' W	271540.5814	6062524.442
64	54° 38,071' N	0° 34,322' W	269479.0718	6059985.357
65	54° 37,290' N	0° 38,038' W	265409.6499	6058742.603
66	54° 37,399' N	0° 42,640' W	260470.9811	6059204.005
67	54° 37,100' N	0° 46,909' W	255850.4152	6058893.808
68	54° 36,593' N	0° 49,406' W	253113.9324	6058100.93
69	54° 36,347' N	0° 49,253' W	253252.893	6057635.916

### 3. Area of Operations – Array Area

The accompanying drawings will be included in an update, however the coordinates of the survey area, including buffers, are also provided below:

Table 2: Array Survey Area Buffer Zone Coordinates

Sofia OWF 3km extended buffer from the WTG locations (109)				
WGS1984-UTM Zone 31 N				
Location	Easting (m)	Northing (m)	Latitude (dd:mm:ss.sss)	Longitude (dd:mm:ss.sss)
1	429294.03	6096696.71	55° 0' 43.555" N	1° 53' 39.551" E
2	443920.98	6111400.45	55° 8' 45.883" N	2° 7' 12.442" E
3	452182.34	6111512.28	55° 8' 52.620" N	2° 14' 58.959" E
4	471433.91	6092361.24	54° 58' 38.433" N	2° 33' 13.267" E
5	455836.27	6076681.71	54° 50' 7.114" N	2° 18' 44.677" E
6	449500.32	6076595.95	54° 50' 2.185" N	2° 12' 49.643" E
7	448085.94	6115587.28	55° 11' 2.949" N	2° 11' 4.906" E
8	452642.00	6073470.68	54° 48' 22.188" N	2° 15' 47.549" E



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## 4. Offshore Geophysical Investigation – Export Cable Corridor

The geophysical operations at the SOWF site are expected to be carried out from the Fugro Pioneer from 22<sup>nd</sup> May 2020 for approximately four to five weeks, however this survey may be carried out earlier than the date mentioned above. Also please note that the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

**As the Fugro Pioneer will be towing survey equipment the vessel will require large turning circles therefore it is requested that all vessels operating within this area keep their distance, maintaining at least the 2,000 m exclusion including in the survey area buffer (coordinates above), and pass at minimum speed to reduce vessel wash.**

Survey operations will be conducted on a 24 hour basis.

## 5. Offshore Geotechnical Investigation – Export Cable Corridor

The geotechnical operations at the SOWF site are expected to be carried out from the Despina following mobilisation on 28<sup>th</sup> March 2020 at the earliest (subject to weather) for approximately one month. The exact start and finish date will be dependent on the prevailing weather conditions and work progress.

**Due to the Despina having limited manoeuvrability whilst working in DP mode It is requested that all vessels operating within this area keep their distance. The required exclusion zone is 500 m which is included in the survey area buffer of 2,000 m (coordinates above)**

Survey operations will be conducted on a 24 hour basis.

## 6. Offshore Geophysical Investigation – Array Area

The Fugro Venturer and Fugro Pioneer will be carrying out geophysical operations and 2DUHR operations within the offshore turbine array with works expected to commence at the start of April 2020.

Survey operations at the offshore Array are expected to continue through to July 2020. Vessel engaged in geophysical survey operations will deploy survey equipment behind the stern of the vessel and will require a large turning circle. Buffer zones are detailed in section 3.

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## 7. Immediate Contacts

The contents of this notice are based upon our current site investigation programme and upon Fugro's planning at the time of submission. It should be noted that Fugro will endeavour to update this notice as required.

Enquiries regarding the contents of this Notice to Mariners, or any other matters, should be directed to Fugro (survey contractor):

**Sally Dalrymple – Project Manager**

**Tel:** +44 (0) 1491 820 657, +44 (0) 7917 058 751 (mob), **Email:** [s.dalrymple@fugro.com](mailto:s.dalrymple@fugro.com)

**Sydney Waters – Assistant Project Manager**

**Tel:** +44 (0) 1491 820 846, **Email:** [s.waters@fugro.com](mailto:s.waters@fugro.com)

**Mark Schreiber – Vessel Manager (Pioneer)**

**Tel:** +31 638 332 2210 (mob), **Email:** [m.schreiber@fugro.com](mailto:m.schreiber@fugro.com)

**Kurt Kleppe – Vessel Manager (Despina)**

**Tel:** +47 957 21419 (mob), **Email:** [k.kleppe@fugro.com](mailto:k.kleppe@fugro.com)

**Ward Reid – Vessel Manager (Fugro Venturer)**

**Tel:** +44 (0)7815 510099 (mob), **Email:** [w.reid@fugro.com](mailto:w.reid@fugro.com)

For enquiries related to Fishing, please contact the dedicated Fisheries Liaison Officer for the Sofia Offshore Wind Farm:

**Nigel Proctor – Fisheries Liaison Officer (FLO)**

**Tel:** +44 (0) 7702 730 891 (mob), **Email:** [n.proctor@precisionmarine.co.uk](mailto:n.proctor@precisionmarine.co.uk)

## 8. Survey Vessels

Export cable corridor operations will be conducted by the survey vessels Fugro Pioneer and Despina. The Array area operations will be conducted by the survey vessel Fugro Venturer and Fugro Pioneer. The guard vessel will be the Hartlepool based fishing vessel the Margaret Mary. Client, contractor and fisheries liaison contact details are provided in the Notice to Mariners distribution list in Section 6.

Table 3: Fugro Pioneer



	General Information	
	Name	Fugro Pioneer
	Flag	Bahamas
	Call Sign	C6BH3
	Class	GERMANISCHER LLOYD
	Dimensions	
	Length	53.7 m
	Beam	12.5 m
	Draught (loaded)	3.3 m
	Gross Tonnage	1322 t
	Communication	
	Master	+31 10 7130 946 +31 650 455 597
	Party Chief	+31 638 332 253
	Email:	<a href="mailto:captain@Pio.fugro.com">captain@Pio.fugro.com</a>

Table 4: Despina


	General Information	
	Name	Despina
	Flag	Norway - NIS
	Call Sign	LAKW7
	Class	DNV GL
	Dimensions	
	Length	98.6 m
	Beam	19 m
	Draught (loaded)	6.6 m
	Gross Tonnage	6072 t
	Communication	
	Master	+47 26 67 72 01 +47 953 04 336
Party Chief	+47 26 67 72 03	

Email:	<a href="mailto:Captain.despina@geoff.no">Captain.despina@geoff.no</a>
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Table 3: Fugro Venturer

	General Information	
	Name	Fugro Venturer
	Flag	Bahamas
	Call Sign	C6CG3
	Class	GL+100 A5 E1 BWM(D2) Research Vessel, GL+MC E1 AUT DP 1 EP-D
	Dimensions	
	Length	71.58 m
	Beam	15.4 m
	Draught (loaded)	5.86 m
	Gross Tonnage	2716 t
	Communication	
	Master	+44 (0)1224 257 651 +44 (0)8450 345 281
	Party Chief	+44 (0)1224 257 650 +44 (0)8450 345 280
	Email:	<a href="mailto:venturercaptain@fugro.com">venturercaptain@fugro.com</a>

Table 5: Guard Vessel – Margaret Mary

	General Information	
	Name	Margaret Mary
	Flag	UK
	Call Sign	MGNM6
	Class	Fishing
	Dimensions	
	Length	10 m
	Beam	5.5 m
	Draught (loaded)	3.6m
	Gross Tonnage	17.56t
	Communication	
	Master	+44 (0) 7785 538567
	Vessel Sat Phone	+88 1621 461 360
	Email:	<a href="mailto:phillip.walsh@ntlworld.com">phillip.walsh@ntlworld.com</a>

## 9. Distribution List

This Notice to Mariners has been distributed to the following authorities, companies and individuals:

### 9.1 Maritime Notification and Authorities

Table 6: Maritime and Authorities

Organisation	Address	Phone	E-mail	Role
UK Hydrographic Office	Admiralty Way Taunton Somerset TA1 2DN	+44 (0) 1823 337 900	<a href="mailto:navwarnings@btconnect.com">navwarnings@btconnect.com</a>	Radio Navigation Warnings
			<a href="mailto:sdr@ukho.gov.uk">sdr@ukho.gov.uk</a>	H-Notes
MOD Portsmouth			<a href="mailto:desnbcop-cob-dqhm@mod.co.uk">desnbcop-cob-dqhm@mod.co.uk</a>	UK Ministry of Defence
UK Maritime and Coastguard Agency	Spring Place 105 Commercial Road Southampton Hampshire SO15 1EG	+44 (0) 23 8032 9486	<a href="mailto:navigationsafety@mcga.gov.uk">navigationsafety@mcga.gov.uk</a>	UK Coastguard
Trinity House Lighthouse Service	Tower Hill London EC3N 4DH	+44 (0) 20 7481 6900	<a href="mailto:navigation.directorate@thls.org">navigation.directorate@thls.org</a>	England/Wales lights, marks and buoys
Department for Environment, Food and Rural Affairs (DEFRA)	Nobel House 17 Smith Square London SW1P 3JR	+44 (0) 20 7238 6951		
Marine Management Organisation	Pakefield Rd, Lowestoft NR33 0HT	01502 573149	<a href="mailto:lowestoft@marinemangement.org.uk">lowestoft@marinemangement.org.uk</a>	
MCA Navigational Safety Branch	Humber		<a href="mailto:wm.humber@mcga.gov.uk">wm.humber@mcga.gov.uk</a>	
	Thames		<a href="mailto:wm.thames@mcga.gov.uk">wm.thames@mcga.gov.uk</a>	
The Crown Estate	1 St James's Market, London, SW1Y 4AH	+44 (0) 20 7851 5077	<a href="mailto:Stuart.Curry@thecrownestate.co.uk">Stuart.Curry@thecrownestate.co.uk</a>	Seabed owner

## 9.2 Fishing Industry

Table 7: Fishing Industry

Organisation	Address	Phone	E-mail	Role
National Federation of Fisherman's Organisations	30 Monkgate York YO31 7PF	+44 (0) 1904 635 430	<a href="mailto:nffo@nffo.org.uk">nffo@nffo.org.uk</a>	Fishing Industry Representatives
Sea Fish industry Authority	Origin Way Europarc Grimsby NE Lincs	+44 (0) 1472 252 300	<a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a>	Fishing industry Notice / Publication Kingfisher Information Service
Redcar & Tees Bay Fishermen's Association			<a href="mailto:daviebt@msn.com">daviebt@msn.com</a>	David Blount
Whitby Fishermen's Association			<a href="mailto:lewiscole@aol.com">lewiscole@aol.com</a>	James Cole (Chairman)

## 9.3 Port Authorities

Table 8: Port Authorities

Organisation	Address	Phone	E-mail	Role
Hartlepool PD Ports	Hartlepool Dock Cleveland Road Hartlepool TS24 0UZ	+44 (0) 1642 77000	<a href="mailto:enquiries@pdports.co.uk">enquiries@pdports.co.uk</a>	
Whitby Harbour	Harbour Office, Endeavour Wharf, Whitby, YO21 1DN	+44 (0) 1947 602354	<a href="mailto:port.services@scarborough.gov.uk">port.services@scarborough.gov.uk</a>	
Tees Port	Teesport, Grangetown, Middlesbrough TS6 6UD	+44 (0) 1642 877000	<a href="mailto:enquiries@pdports.co.uk">enquiries@pdports.co.uk</a>	

## 9.4 Client Group

Table 9: Client Group

Organisation	Address	Phone	E-mail	Role
Sofia Offshore Wind Farm Limited	Trigonos, Windmill Hill Business Park, Swindon, SN5 6PB	+44 (0)7384 806 514	<a href="mailto:michael.gould@innogy.com">michael.gould@innogy.com</a>	Client: Mike Gould

## 9.5 Contractor Group

Table 10: Contractor Group

Organisation	Address	Phone	E-mail	Role
Fugro GB Marine Limited	Fugro House Hithercroft Road Wallingford Oxfordshire OX10 9RB	+44 (0) 1491 820 657  +44 (0) 7917 058 751	<a href="mailto:s.dalrymple@fugro.com">s.dalrymple@fugro.com</a>	Project Manager : Sally Dalrymple
Fugro GB Marine Limited	Fugro House Hithercroft Road Wallingford Oxfordshire OX10 9RB	+44 (0) 1491 820 846	<a href="mailto:s.waters@fugro.com">s.waters@fugro.com</a>	Assistant Project Manager : Sydney Waters
Fugro Netherlands Marine Limited	Prismastraat 4, 2631 RT Nootdorp The Netherlands	+31 638 33 2210	<a href="mailto:m.schreiber@fugro.com">m.schreiber@fugro.com</a>	Vessel Manager : Mark Schreiber
Fugro Norway	Nygaardsviken 1, 5165 Laksevaag Norway	+47 957 21419	<a href="mailto:k.kleppe@fugro.com">k.kleppe@fugro.com</a>	Vessel Manager : Kurt Kleppe
Fugro GB Marine North Limited	Survey House, Denmore Road, Bridge of Don, Aberdeen, AB23 8JW	+44 (0)7815 510099	<a href="mailto:w.reid@fugro.com">w.reid@fugro.com</a>	Vessel Manager : Ward Reid
Precision Marine Survey Limited	Church Farm, Main Road, Thorngumbald, East Yorkshire HU12 9NE	+44 (0) 1964 624 423 +44 (0) 7702 730 891	<a href="mailto:n.proctor@precisionmarine.co.uk">n.proctor@precisionmarine.co.uk</a>	Fisheries Liaison Officer: Nigel Proctor
Precision Marine Survey Limited	Church Farm, Main Road, Thorngumbald, East Yorkshire HU12 9NE	+44 (0) 1964 624 423 +44 (0) 7507 556 582	<a href="mailto:d.proctor@precisionmarine.co.uk">d.proctor@precisionmarine.co.uk</a>	Assistant Fisheries Liaison Officer: Daniel Proctor
Guard Vessel	Margaret Mary	+44 (0) 7785 538 567	<a href="mailto:phillip.walsh@ntlworld.com">phillip.walsh@ntlworld.com</a>	Master – Phil Walsh

# Appendix A

## Buffer Zone Drawings