

# Vendor Coversheet

<b>Project Name:</b>	Dogger Bank South Geophysical SI	<b>Package No:</b>	RO407
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<b>Document Title:</b>	DBS Notice to Mariners
<b>Classification:</b>	Unrestricted

<b>Vendor Doc. No:</b>	004267848-09	<b>Vendor Revision:</b>	09
<b>Date:</b>	08th August 2022	<b>Pages:</b>	14

<b>Employers Doc. No:</b>	004267848-09	<b>Employer Revision:</b>	09
<b>Document Status:</b>	For Use		

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## 1. Introduction

RWE Renewables has contracted Fugro GB Marine Limited (Fugro) to carry out a geophysical, environmental and geotechnical site investigation in the North Sea for the proposed Dogger Bank South Offshore Wind Farm (DBS) array site and export cable routes.

The Dogger Bank South Offshore Wind Farms array site is located 70 Nm East of Flamborough Head on the southern edge of Dogger Bank, with export cable route options extending to a beach landing in the vicinity of Bridlington.

The surveys are progressing well and the maximum extent of survey operations is presented in Figure 1.1. The area in orange outlines the area within which survey operations are still ongoing and the area in grey outlines the area within which survey operations are now complete.

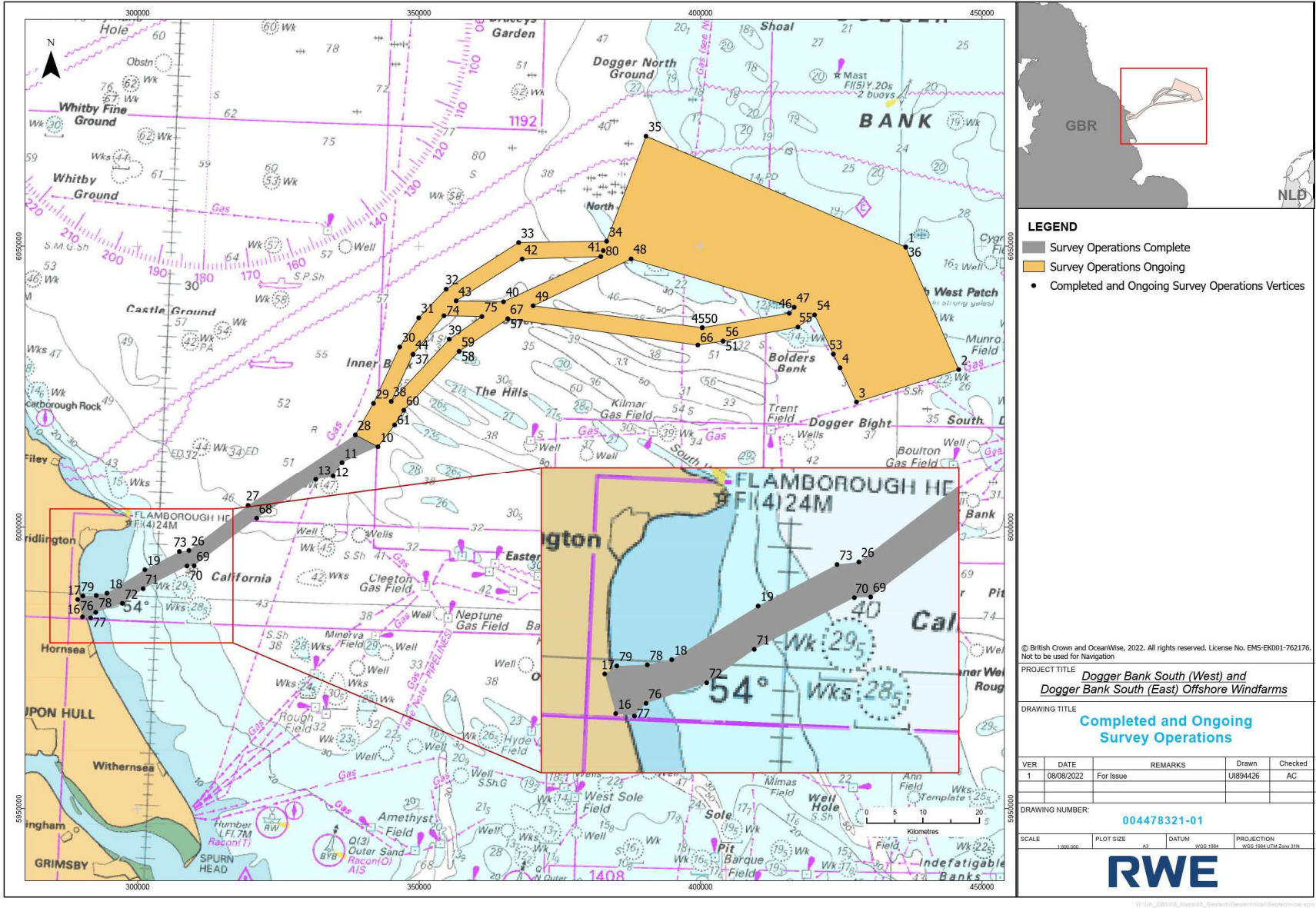


Figure 1.1 Dogger Bank South maximum extent of survey operations

## 2. Area of Operations

The coordinates of the maximum extent of survey operations are provided below. Coordinates within which survey operations are now complete have been marked in grey and no further operations are planned within this area.

Table 2.1: Survey Area Buffer Zone Coordinates (WGS84 UTM Zone 31N)

Label	Easting	Northing	Lat_DDM (WGS84)	Long_DDM (WGS84)
1	436466.3	6049826.4	54° 35.515' N	2° 01.004' E
2	445872.3	6028080.1	54° 23.856' N	2° 09.976' E
3	427716.1	6022312.9	54° 20.611' N	1° 53.284' E
4	424790.2	6028391.0	54° 23.863' N	1° 50.492' E
10	342710.8	6014387.0	54° 15.194' N	0° 35.133' E
11	336333.4	6011551.6	54° 13.546' N	0° 29.358' E
12	334754.6	6009075.8	54° 12.182' N	0° 27.988' E
13	331668.6	6008477.2	54° 11.799' N	0° 25.173' E
16	290222.5	5984062.0	53° 57.737' N	0° 11.875' W
17	289367.6	5987146.6	53° 59.377' N	0° 12.783' W
18	294581.8	5988258.7	54° 0.102' N	0° 08.064' W
19	301302.5	5992425.5	54° 2.504' N	0° 02.084' W
26	309139.6	5995847.9	54° 4.524' N	0° 04.958' E
27	319637.9	6003848.5	54° 9.061' N	0° 14.287' E
28	338688.0	6016482.4	54° 16.247' N	0° 31.364' E
29	341910.2	6022078.7	54° 19.323' N	0° 34.152' E
30	346580.0	6032103.0	54° 24.809' N	0° 38.147' E
31	349950.7	6037264.2	54° 27.650' N	0° 41.103' E
32	354825.0	6042350.0	54° 30.476' N	0° 45.462' E
33	367710.9	6050625.7	54° 35.147' N	0° 57.171' E
34	383333.6	6050856.9	54° 35.502' N	1° 11.663' E
35	390328.6	6069499.6	54° 45.644' N	1° 17.735' E
36	436466.3	6049826.4	54° 35.515' N	2° 01.004' E
37	348938.2	6030779.6	54° 24.139' N	0° 40.365' E
38	345066.9	6022427.5	54° 19.569' N	0° 37.051' E
39	355393.8	6033467.3	54° 25.699' N	0° 46.249' E
40	365009.4	6040116.6	54° 29.441' N	0° 54.954' E
41	382295.1	6048143.3	54° 34.025' N	1° 10.764' E
42	368327.5	6047700.9	54° 33.580' N	0° 57.822' E
43	356596.8	6040287.8	54° 29.395' N	0° 47.162' E

44	348938.2	6030779.6	54° 24.139' N	0° 40.365' E
45	400312.5	6035520.8	54° 27.454' N	1° 27.734' E
46	415773.2	6038079.3	54° 29.001' N	1° 41.995' E
47	416647.4	6039136.4	54° 29.579' N	1° 42.787' E
48	387675.7	6047721.9	54° 33.872' N	1° 15.765' E
49	370266.2	6039403.0	54° 29.139' N	0° 59.839' E
50	400312.5	6035520.8	54° 27.454' N	1° 27.734' E
53	423616.6	6030828.9	54° 25.167' N	1° 49.370' E
54	420267.9	6037785.2	54° 28.886' N	1° 46.162' E
55	417312.1	6035632.1	54° 27.697' N	1° 43.461' E
56	404017.4	6033127.6	54° 26.206' N	1° 31.208' E
57	365777.7	6037090.9	54° 27.823' N	0° 55.748' E
58	357133.3	6031317.1	54° 24.570' N	0° 47.919' E
59	357130.0	6031314.9	54° 24.569' N	0° 47.916' E
60	347304.7	6020865.3	54° 18.768' N	0° 39.162' E
61	345674.2	6018249.9	54° 17.329' N	0° 37.740' E
66	399533.7	6032438.6	54° 25.783' N	1° 27.076' E
67	365777.7	6037090.9	54° 27.823' N	0° 55.748' E
68	321164.9	6001554.6	54° 7.857' N	0° 15.770' E
69	310058.6	5993127.0	54° 3.079' N	0° 05.902' E
70	308794.1	5993074.4	54° 3.023' N	0° 04.747' E
71	301001.6	5989055.5	54° 0.682' N	0° 02.227' W
72	297303.9	5986452.3	53° 59.194' N	0° 05.504' W
73	307443.4	5995651.2	54° 4.381' N	0° 03.412' E
74	354439.7	6037631.2	54° 27.927' N	0° 45.244' E
75	361186.4	6037493.8	54° 27.966' N	0° 51.489' E
76	292582.9	5984859.5	53° 58.2239' N	0° 09.752' W
77	291675.4	5983875.8	53° 57.6723' N	0° 10.540' W
78	292678.3	5987857.0	53° 59.8402' N	0° 09.787' W
79	290301.9	5987772.2	53° 59.7370' N	0° 11.955' W
80	382736.7	6049195.9	54° 34.5988' N	001° 11.1486' E

Coordinates are in WGS84 and UTM 31 (DDM)

### 3. Offshore Geophysical Investigation

The geophysical survey operations on the Dogger Bank South array site continues with the Fugro Frontier until approximately the 31<sup>st</sup> October 2022.

The Fugro Searcher has now mobilised to the Dogger Bank South array site and is expected to continue with geophysical survey operations until approximately the 10<sup>th</sup> September 2022.

The Valkyrie has now completed operations and demobilised from site.

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.

#### **Important Information**

As the Fugro Frontier and Fugro Searcher operating in the array will be towing survey equipment the vessels will require large turning circles and will be restricted in her ability to manoeuvre. All vessels operating within the array area are requested to keep their distance, maintaining at least a 1,000m exclusion zone around the survey vessel, and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.

Offshore survey operations will be conducted on a 24-hour basis.

Nearshore survey operations (Valkyrie) will be conducted on a 12-hour (Daylight) basis.

### 4. Offshore Environmental Investigation

The DSV Curtis Marshall has mobilised to the Dogger Bank South array and export cable corridor to conduct a benthic subtidal survey with operations anticipated to continue until approximately the 30<sup>th</sup> August.

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.

#### **Important Information**

The DSV Curtis Marshall, operating within both the array and export cable routes, will be acquiring seabed samples, during operations manoeuvrability will be limited.

The Curtis Marshall will also be conducting research seabed trawling with towed (2-m beam trawl) equipment and seabed imagery with a towed camera. All vessels operating within the vicinity of the DSV Curtis Marshall are requested to keep their distance, maintaining at least a 500m exclusion zone around the survey vessel, and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.

Offshore survey operations will be conducted on a 24-hour basis.

## 5. Offshore Geotechnical Investigation

The geotechnical survey operations on the Dogger Bank South array sites are expected to be carried out by the Fugro Scout and the Normand Mermaid starting around 10<sup>th</sup> August 2022, with operations continuing for a period of approximately two weeks.

Please note that the exact start and finish dates will be dependent on the prevailing weather conditions and work progress.

### **Important Information**


As the Fugro Scout and Normand Mermaid will be conducting drilling operations using a dynamic positioning system, it is requested that all vessels operating within this area keep their distance, maintaining at least a 500m exclusion zone, and pass at minimum speed to reduce vessel wash.

A continuous listening watch will be conducted on VHF Channel 16 by all survey vessels.

Operations will be conducted on a 24-hour basis.




Table 5.1: Fugro Frontier

	General Information	
	Name	Fugro Frontier
	Flag	Bahamas
	MMSI	311000263
	IMO	9723667
	Call Sign	C6BH4
	Length	54m
	Gross Tonnage	1308
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+31 10 7130 936
	Vessel Master Email:	<a href="mailto:captain@fro.fugro.com">captain@fro.fugro.com</a>
	Vessel Party Chief Email:	<a href="mailto:pc@fro.fugro.com">pc@fro.fugro.com</a>

**Alistair Leighton – Vessel Project Manager****Mob:** +31 643 249 064, **Email:** [a.leighton@fugro.com](mailto:a.leighton@fugro.com)


Table 5.2: Fugro Searcher

	General Information	
	Name	Fugro Searcher
	Flag	Bahamas
	MMSI	311000904
	IMO	9504011
	Call Sign	C6EI5
	Length	65m
	Gross Tonnage	1940
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+44 1224 051616
	Vessel Master Email:	<a href="mailto:captain@sea.fugro.com">captain@sea.fugro.com</a>
	Vessel Party Chief Email:	<a href="mailto:pc@sea.fugro.com">pc@sea.fugro.com</a>

**Ali MacAskill – Vessel Project Manager****Mob:** +44 (0)1224 257579, **Email:** [a.macaskill@fugro.com](mailto:a.macaskill@fugro.com)




Table 5.3: DSV Curtis Marshall

	General Information	
	Name	DSV Curtis Marshall
	Flag	United Kingdom
	MMSI	235107219
	Call Sign	2HWN3
	Length	27m
	Beam	8m
	Draught	2.8m
	Gross Tonnage	184
	Communication	(VHF Channel 16)

**Seamus Whyte – Vessel Project Manager**

**Mob:** +44 (0) 2392 205 500, **Email:** sg.whyte@fugro.com


Table 5.4: Fugro Scout

	General Information	
	Name	Fugro Scout
	Flag	Singapore
	MMSI	566948000
	IMO	9600372
	Call Sign	9V3887
	Length	75.3
	Gross Tonnage	4641
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+881 6 771 12 418
	Vessel Master Email:	captain@sco.fugro.com
	Vessel Party Chief Email:	pc@sco.fugro.com

**Marscha de Bruijn – Vessel Project Manager**

**Mob:** +31 618 750 691, **Email:** marscha.debruijn@fugro.com

Table 5.5: Normand Mermaid

	General Information	
	Name	Normand Mermaid
	Flag	NIS
	MMSI	258612000
	IMO	9249348
	Call Sign	LAXH7
	Length	90.1
	Gross Tonnage	5528
	Communication (VHF Channel 16)	
	Vessel Sat Phone	+47 52 85 60 87 (Master) +47 52 85 60 06 (Bridge VSAT)
	Vessel Master Email:	master@mermaid.solstad.com
	Vessel Party Chief Email:	pc.normandmermaid@fugro.com

**Anara van der Salm – Vessel Project Manager****Mob:** +31 628 522 172, **Email:** A.vandersalm@fugro.com

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## 6. 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, should be directed to Fugro (survey contractor).

Enquiries relating to the geophysical and / or environmental investigation should be sent to:

**Daniel Ferguson – Project Manager**

**Mob:** +44 (0) 7968 845551, **Email:** [d.ferguson@fugro.com](mailto:d.ferguson@fugro.com)

**Guy Jamieson – Project Delivery Manager**

**Mob:** +44 (0) 7771 908 323, **Email:** [g.jamieson@fugro.com](mailto:g.jamieson@fugro.com)

Enquiries relating to the geotechnical investigation should be sent to:

**Suraiya Laloo – Project Manager**

**Mob:** ++44 7442 931 538, **Email:** [s.laloo@fugro.com](mailto:s.laloo@fugro.com)

**Andy Fleetwood – Project Delivery Manager**

**Mob:** +44 7392 263094, **Email:** [a.fleetwood@fugro.com](mailto:a.fleetwood@fugro.com)

## 7. Fisheries

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

**Nigel Proctor - Fisheries Liaison Officer (FLO) (Precision Marine Survey Limited)**

**Mob:** +44 (0) 7702 730891, **Email:** [n.proctor@precisionmarine.co.uk](mailto:n.proctor@precisionmarine.co.uk)

**Daniel Proctor - Fisheries Liaison Officer (FLO) (Precision Marine Survey Limited)**

**Mob:** +44 (0) 7507 556582, **Email:** [d.proctor@precisionmarine.co.uk](mailto:d.proctor@precisionmarine.co.uk)

## 8. Distribution List

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

### 8.1 Maritime Notification and Authorities

Table 8.1: 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@ukho.gov.uk">navwarnings@ukho.gov.uk</a>	Radio Navigation Warnings
			<a href="mailto:sdr@ukho.gov.uk">sdr@ukho.gov.uk</a>	H-Notes
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
Marine Management Organisation (Scarborough))	Unit 2a, Newchase Court Hopper Hill Road Eastfield Scarborough North Yorkshire YO11 3YS	+44 (0) 1723 580 040	<a href="mailto:scarborough@marinemmanagement.org.uk">scarborough@marinemmanagement.org.uk</a>	Scarborough MMO Office
Marine Management Organisation (Beverley)	Room 13, Ground Floor Crosskill House Mill Lane Beverley HU17 9JB	0208 026 0519	<a href="mailto:beverley@marinemmanagement.org.uk">beverley@marinemmanagement.org.uk</a>	Beverley MMO Office
The Crown Estate	1 St James's Market London SW1Y 4AH	020 7851 5000	<a href="mailto:Consents@thecrownestate.co.uk">Consents@thecrownestate.co.uk</a>	Consents

### 8.2 Fishing Industry

Table 8.2: Key Fishing Industry Contacts\*

Organisation	Address	Phone	E-mail	Role
National Federation of Fisherman's Organisations	30 Monkgate York YO31 7PF	01904 635 430	<a href="mailto:nffo@nffo.org.uk">nffo@nffo.org.uk</a>	Fishing Industry Representatives

Organisation	Address	Phone	E-mail	Role
Scottish Fishermen's Federation	24 Rubislaw Terrace Aberdeen AB10 1XE	01224 646944	renewables@sff.co.uk	Fishing Industry Representatives
Sea Fish industry Authority	Origin Way Europarc Grimsby NE Lincs DN37 9TZ	01472 252 300	<a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a>	Fishing industry Notice / Publication Kingfisher Information Service
Inshore Fisheries and Conservation Authorities (IFCA)	Eastern IFCA – Unit 6, North Lynn Business Village, Bergen Way, Kings Lynn, PE30 2JG	01553 775321	<a href="mailto:mail@eastern-ifca.gov.uk">mail@eastern-ifca.gov.uk</a>	IFCAs regulate and enforce inshore fisheries, for fisheries sustainability and conservation purposes
	North Eastern IFCA – Town Hall, Bridlington, YO16 4LP	01482 393515	<a href="mailto:ne-ifca@eastriding.gov.uk">ne-ifca@eastriding.gov.uk</a>	

\*Note that the FLO will distribute to other individual, national and international fishing interests as required.

## 8.3 Port Authorities

Table 8.3: Port Authorities

Organisation (Contact)	Address	Phone	E-mail	Role
Ports of Scarborough and Whitby	Scarborough Borough Council Whitby Harbour Office, Endeavour Wharf Whitby YO21 1DN	01947 602 354 / 01723 373 530	chris.burrows@scarborough.gov.uk	Harbour Master
Bridlington Harbour	Gummers Wharf West End Bridlington YO15 3AN	01262 670148	email@bridlingtonharbour.com	Harbour Superintendent
Grimsby Fish Dock	Wharnccliffe Road Grimsby DN31 3QJ	01472 350 023	roger@portofgrimsby.com	Port Operations Manager
Port of Immingham	Nordic House Western Access Road Immingham DN40 2LZ		alan.finch@dfds.com	Terminal Operations Director

## 8.4 Client Group

Table 8.4: Client Group

Organisation	Address	Phone	E-mail	Role
Dogger Bank South Offshore Wind Farm	RWE Renewables UK Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire SN5 6PB	07557 758 149	Mark.osola@rwe.com	Project Manager Mark Osola

## 8.5 Contractor Group

Table 8.5: Contractor Group

Organisation	Address	Phone	E-mail	Role
Fugro GB Marine Limited	Victory House 16 Trafalgar Wharf Hamilton Road Portchester Hampshire PO6 4PX	07968 845 551	<a href="mailto:d.ferguson@fugro.com">d.ferguson@fugro.com</a>	Project Manager: Daniel Ferguson