

NOTICE TO MARINERS – OFFSHORE

**Fugro Document No.:
190656-NtM_Offshore Survey**

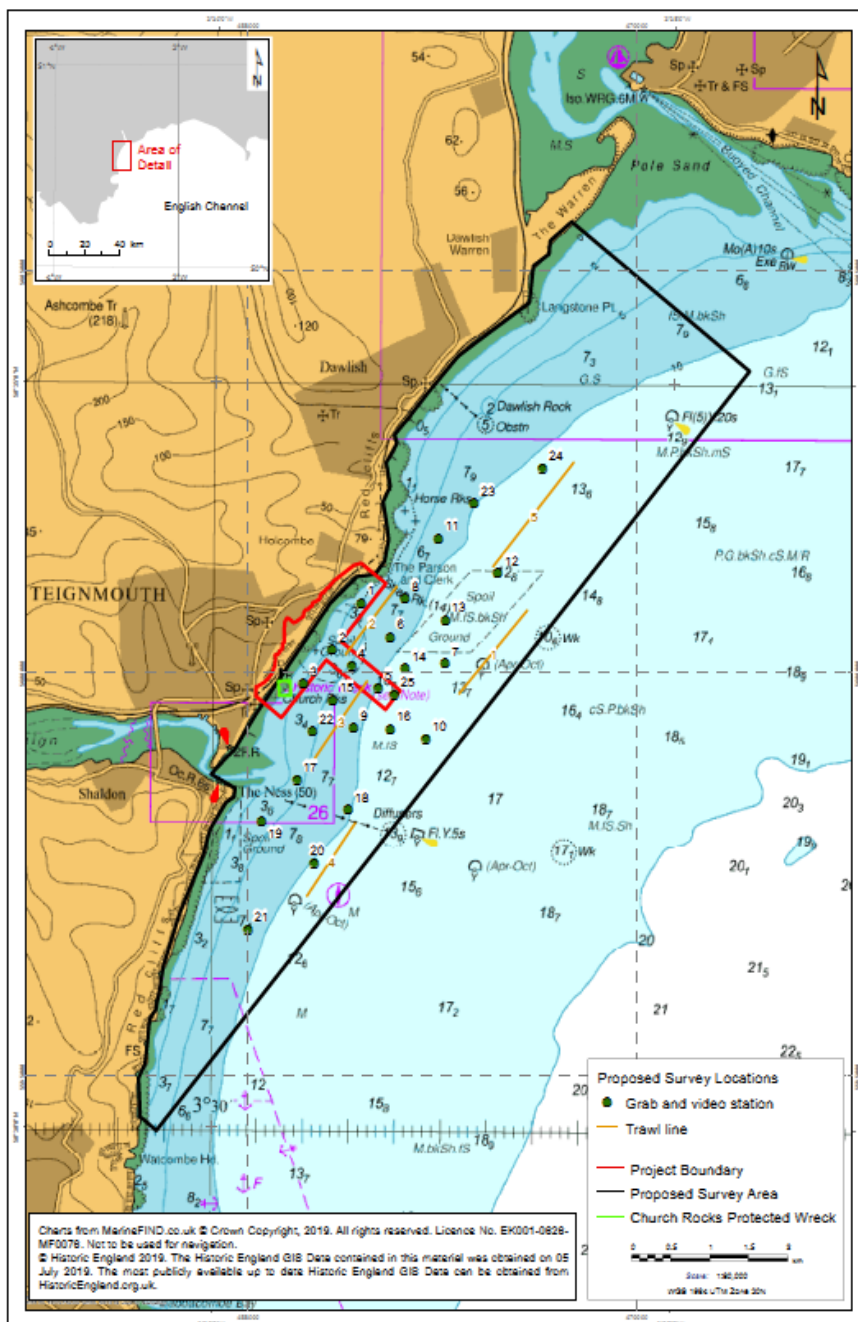
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1. INTRODUCTION

Network Rail is proposing a plan of works to improve the resilience of sea defences and cliff butressing along the section of coastal railway between Parsons Tunnel and Teignmouth Fugro GB Marine Limited (FGBML) in turn been contracted by Arcadis to conduct an environmental survey for the scheme.

2. AREA OF OPERATIONS – EXPORT CABLE CORRIDOR AND ARRAY

The following map indicates the areas within which the export cable corridor and array survey will be carried out and the coordinates of the survey area, including buffers, are also provided below:



Drop Down Video Coordinates:

Video station coordinates (WGS 1984 UTM Zone 30 N)		
ID	Easting_m	Northing_m
1	466456.2	5600880.0
2	466082.9	5600307.5
3	465711.2	5599880.7
4	466331.8	5600100.1
5	466672.0	5599826.3
6	466829.6	5600456.9
7	467534.8	5600133.3
8	467020.4	5600938.1
9	466356.7	5599328.5
10	467285.9	5599195.7
11	467451.9	5601684.8
12	468215.2	5601253.4
13	467536.4	5600671.7
14	467020.0	5600065.0
15	466090.6	5599677.7
16	466826.4	5599316.3
17	465625.9	5598683.8
18	466284.3	5598309.4
19	465174.1	5598167.4
20	465845.4	5597651.1
21	464993.4	5596825.0
22	465832.5	5599290.5
23	467910.7	5602117.4
24	468788.5	5602556.3
25	466878.1	5599742.3

Video Transect coordinates (WGS 1984 UTM Zone 30 N)			
ID	Point on Line	Easting_m	Northing_m
TR01	SOL	467723.6	5599736
TR01	EOL	468106.6	5600057
TR02	SOL	466264.9	5600226
TR02	EOL	466647.9	5600548
TR03	SOL	465864.7	5598936
TR03	EOL	466247.7	5599257
TR04	SOL	466135.8	5597593
TR04	EOL	466518.8	5597914
TR05	SOL	466574.7	5599323
TR05	EOL	466957.7	5599644

3. OFFSHORE ENVIRONMENTAL INVESTIGATION – WHOLE SITE

The environmental operations at the site are expected to be carried out from 23 **August 2019** for approximately two days. However, the exact start and finish date will be dependent on the prevailing weather conditions and work progress.

Survey operations will be conducted on a 12 hour basis.

On arrival at each sample station, the drop down video camera will be initially deployed for a minimum period of 5 minutes to record the seabed type and associated epibenthic communities. Longer deployments may be undertaken in complex seabed areas or to map the boundaries of particular features, such as a rock reef outcrop. The discretion of the field ecologists will be used as to final duration of the video deployment to ensure that the habitat and species variety is adequately recorded. The video will be overlaid with time, date and real-time dGPS position. The camera is fitted with LED lights and laser pointers for accurate scaling.

Recordings from each video deployment will include station identity, time, date and start and end positions of the video line, weather and sea state conditions, substrate types, conspicuous species and evidence of seabed mobility (i.e. sand ripples) and bioturbation / burrows. A series of digital stills images will also be collected along each video tow to illustrate the substrate conditions and associated epibenthic communities present. Each stills image will be digitally stamped with time/date and dGPS coordinate information.

Sampling locations have been predetermined and agreed with the client prior to the start of the survey.

At 5 locations, a video transect shall be undertaken. The duration of the transect shall be 300 to 500 metres depending on ground conditions. Start and end coordinates, time and depth of each transect shall be recorded.

4. IMMEDIATE CONTACTS

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

Craig Barrett – Project Manager


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Seamus Whyte – Project Manager

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5. SURVEY VESSELS

Survey operations will be conducted by the survey vessel Solent Guardian.

Vessel Photograph	Vessel Contact Details	
	Vessel Name / Call Sign	"Solent Guardian" / 2GDK7
	Telephone Master/Bridge	07795466203
	Telephone Client Rep	N/A