

# NOTICE TO MARINERS

**Issue Date: 21<sup>st</sup> August, 2014**

## **Western Link Project - Shallow water cables installation in Liverpool Bay**

Mariners are advised that a cable laying vessel and burial equipment will install the shallow water section of the Western Link Project in Liverpool Bay from the Wirral shore end for about 36km, starting around 5 October 2014 with expected completion by the end of October 2014.

The laying and burial operations work will be carried out by **Assodivers** using **Atalanti** (IMO 8661616; Call Sign 5BYY2) cable lay barge and support tug **Artemis** (IMO 8321591, Call Sign 5BVJ3)

**During such times the vessels will have restricted ability to manoeuvre and other vessels are requested to pass at a safe speed and distance.**

**The vessel will monitor VHF Channel 16 at all times.**



*Atalanti*



*Artemis*

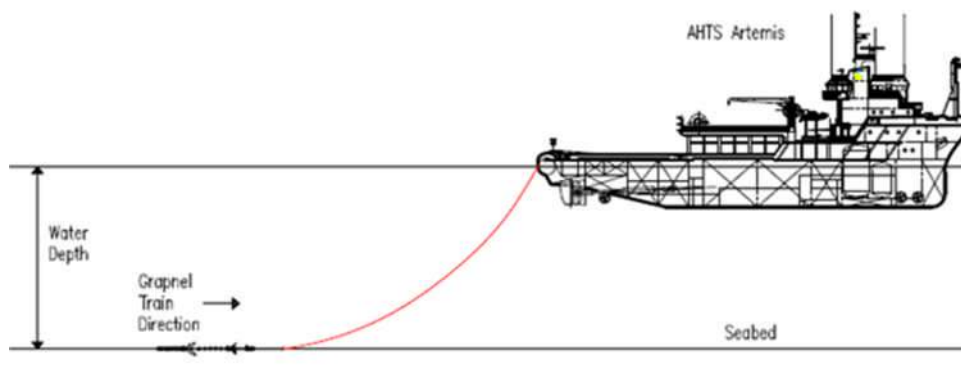
## Project Description

The Western Link Project consists of installing two 600 kV DC submarine cables in the Irish Sea from Ardnail (Scotland) to Wirral (England) for a total route length of about 385 km (Figure 3). The cables will usually be laid as two separate cables approximately 30 metres apart.

The first 36km of bundled cables (this operation) will be installed in Liverpool Bay from the Wirral shore end for about 36km with the following sequence of operations:

### PLGR (Pre Lay Grapnel Run)

Artemis will execute a PLGR operation in a single pass, along the planned installation route in advance of the cable installation operations.



**Figure 1** – Typical PLGR arrangement

### Pre- Lay Survey

In conjunction with the PLGR operation cable lay barge Atalanti will perform an ROV Pre-Lay survey along the installation route.

### Landing Operations

On completion of the pre-lay survey, Atalanti will move towards the shore of Wirral landing point at a position of circa 700m from the HDD conduits, which are located approximately 400m seaward of the sea wall at Leasowe.

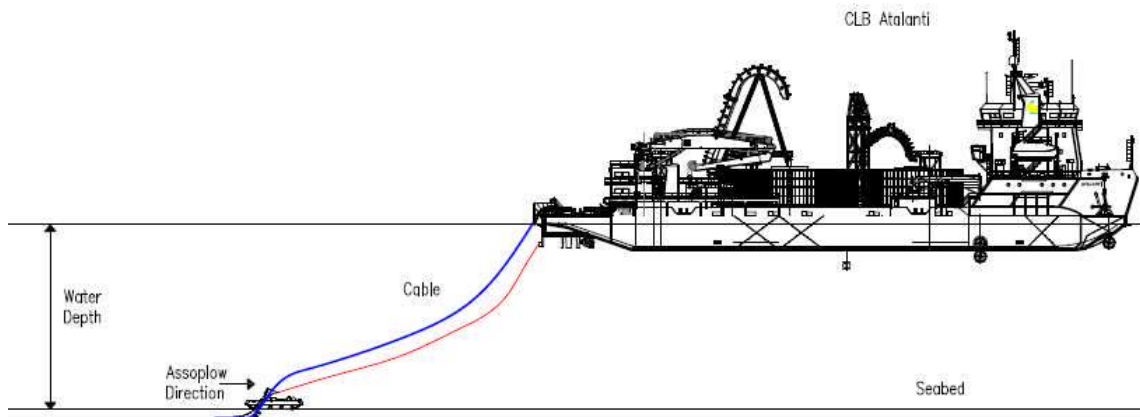
When the vessel is safely grounded the cables landing operation will be performed with the assistance of a support barge

Position Name	WGS84		Geodetic
	Latitude	Latitude	KP(km)
HDD Exit	53° 25.022'N	003° 07.900'W	386.591
CLB Atalanti Grounding Position	53° 26.001'N	003° 08.054'W	384.768

**Table 1** – HDD conduits exit and Atalanti grounding position coordinates

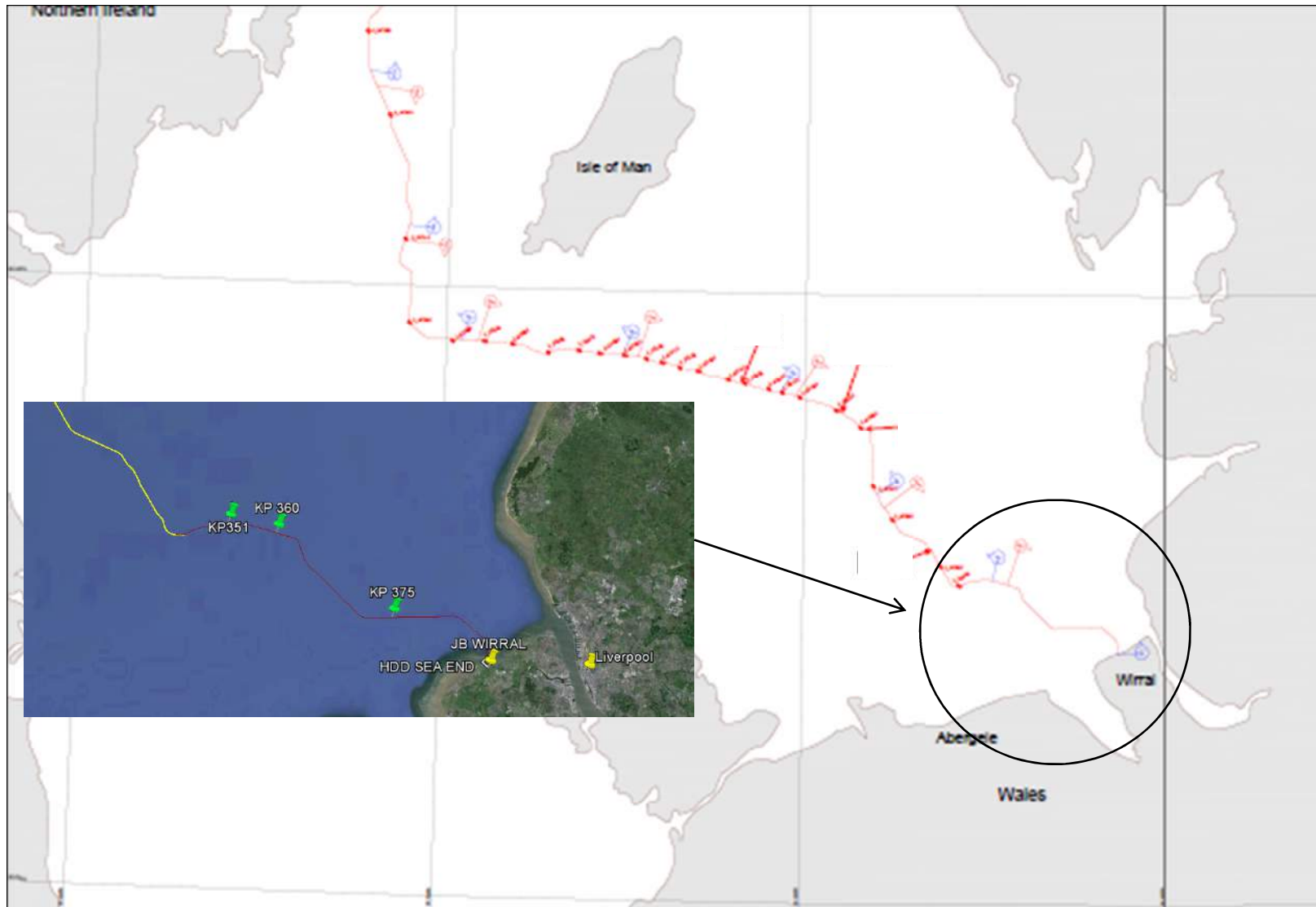
## Cable Installation

Upon completion of all landing operations, cable lay barge Atalanti, using the towed burial machine hydro plough, will start the cable lay and burial activities along the planned route



**Figure 2 – Typical Lay and Burial arrangement**

Figure 3 – Western Link cable route and Liverpool bay Shallow Water installation section



## APPENDIX 1

**Table 1 – Liverpool bay Shallow Water installation section route**

ID	UTM 30 N		WGS84		Depth LAT (m)	Partial Distance (km)	Geodetic		Bearing (deg)	Turning Angle (deg)
	Easting	Northing	Latitude	Longitude			KP (km)	RKP (km)		
AC566	491082	5920487	53° 26.001'N	003° 08.054'W	-1	0.398	384.768	2.423	156.9	17.8
AC565	490927	5920853	53° 26.198'N	003° 08.195'W	1	0.444	384.370	2.821	138.2	18.7
AC564	490631	5921184	53° 26.376'N	003° 08.462'W	1	2.561	383.926	3.265	130.2	8.0
AC563	488681	5922843	53° 27.269'N	003° 10.227'W	7	0.444	381.365	5.827	110.0	20.2
AC562	488265	5922996	53° 27.351'N	003° 10.604'W	7	0.655	380.921	6.270	89.7	20.3
AC561	487610	5922994	53° 27.349'N	003° 11.195'W	7	2.779	380.267	6.925	88.9	0.8
10m	484833	5922949	53° 27.320'N	003° 13.705'W	10	5.129	377.488	9.704	88.8	0.1
AC560	479707	5922866	53° 27.265'N	003° 18.336'W	14	0.250	372.359	14.833	105.3	16.5
AC559	479466	5922933	53° 27.300'N	003° 18.554'W	14	0.316	372.109	15.083	115.1	9.8
AC558	479180	5923068	53° 27.373'N	003° 18.813'W	14	6.848	371.793	15.399	133.9	18.8
AC557	474273	5927840	53° 29.933'N	003° 23.271'W	15	0.539	364.945	22.246	141.4	7.5
AC556	473939	5928263	53° 30.160'N	003° 23.575'W	18	0.985	364.406	22.785	160.9	19.5
AC555	473622	5929194	53° 30.662'N	003° 23.866'W	19	0.896	363.422	23.770	161.3	0.5
AC554	473340	5930045	53° 31.119'N	003° 24.125'W	17	0.312	362.525	24.666	143.0	18.3
AC553	473154	5930295	53° 31.254'N	003° 24.295'W	18	0.263	362.214	24.978	123.5	19.5
AC552	472936	5930441	53° 31.332'N	003° 24.493'W	19	1.171	361.951	25.240	103.9	19.6

AC551	471802	5930730	53° 31.484'N	003° 25.521'W	22	1.503	360.780	26.411	108.3	4.4
AC550	470378	5931211	53° 31.739'N	003° 26.812'W	23	2.970	359.277	27.915	103.9	4.4
AC549	467501	5931943	53° 32.124'N	003° 29.421'W	26	0.916	356.307	30.885	89.3	14.6
AC548	466586	5931939	53° 32.118'N	003° 30.250'W	26	1.684	355.391	31.801	75.0	14.3
AC547	464956	5931516	53° 31.883'N	003° 31.722'W	27	0.591	353.707	33.485	86.2	11.2
Wales/England waters	464366	5931481	53° 31.862'N	003° 32.256'W	28	0.315	353.115	34.076	86.2	0.0
AC546	464052	5931463	53° 31.851'N	003° 32.540'W	27	0.747	352.801	34.391	75.1	11.1
AC545	463329	5931276	53° 31.747'N	003° 33.193'W	29	0.887	352.053	35.138	60.0	15.1
AC544	462558	5930838	53° 31.508'N	003° 33.888'W	29	0.175	351.166	36.025	78.9	19.0
AC543	462386	5930806	53° 31.490'N	003° 34.043'W	29	0.060	350.992	36.200	64.4	14.5

## Contact Details:

Further enquiries should be addressed to the following contacts:

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